


**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒**APPLICATION FOR PERMIT TO DRILL**

<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				<b>1. WELL NAME and NUMBER</b> Monument Butte East State J-36-8-16		
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO				<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE		
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY				<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)		
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052				<b>7. OPERATOR PHONE</b> 435 646-4825		
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML-22061		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com		
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>				<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		
<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
<b>LOCATION AT SURFACE</b>	839 FNL 604 FEL	NENE	36	8.0 S	16.0 E	S
<b>Top of Uppermost Producing Zone</b>	1317 FNL 40 FEL	NENE	36	8.0 S	16.0 E	S
<b>At Total Depth</b>	1317 FNL 40 FEL	NENE	36	8.0 S	16.0 E	S
<b>21. COUNTY</b> DUCHESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 40		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1277		<b>26. PROPOSED DEPTH</b> MD: 6384 TVD: 6384		
<b>27. ELEVATION - GROUND LEVEL</b> 5337		<b>28. BOND NUMBER</b> B001834		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-7478		

**ATTACHMENTS****VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP
<b>NAME</b> Mandie Crozier	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b>	<b>DATE</b> 08/17/2009
<b>API NUMBER ASSIGNED</b> 43013501060000	<b>PHONE</b> 435 646-4825
<b>APPROVAL</b>	<b>EMAIL</b> mcrozier@newfield.com
 Permit Manager	

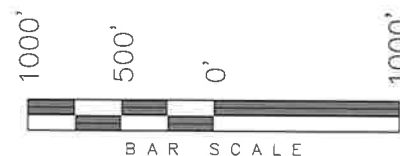
Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	6384		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	6384	15.5			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	350		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	350	24.0			

*T8S, R16E, S.L.B.&M.*

*NEWFIELD PRODUCTION COMPANY*

WELL LOCATION, MONUMENT BUTTE EAST  
J-36-8-16, LOCATED AS SHOWN IN THE  
NE 1/4 NE 1/4 OF SECTION 36, T8S,  
R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



Note:

1. The bottom of hole footages are 1317' FNL & 40' FEL.

THIS IS TO CERTIFY THAT THE ABOVE PLOT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION, THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE AND BELIEF.

STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 66737  
STATE OF TEXAS

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED:  
06-16-09

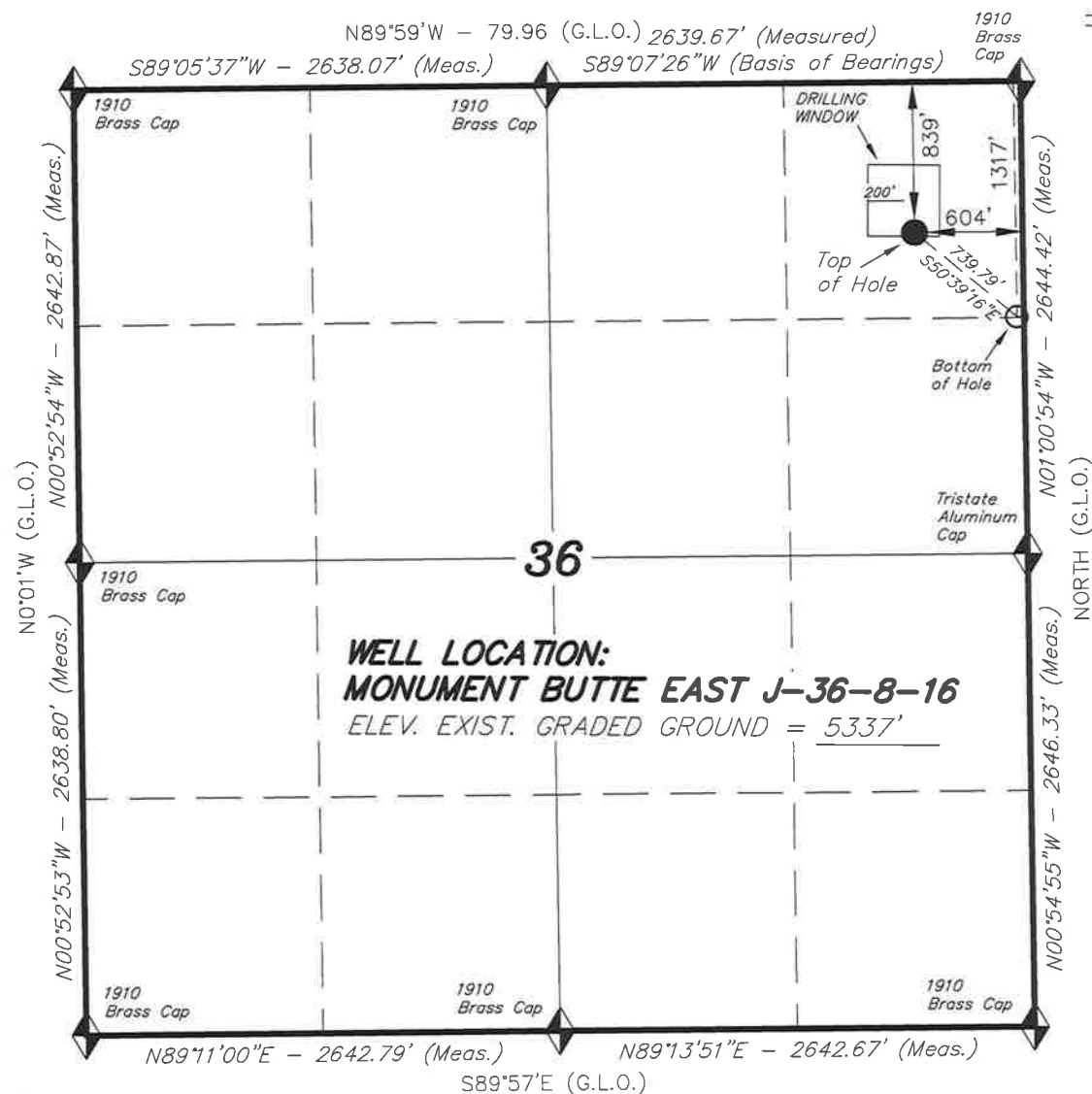
SURVEYED BY: T.H.

DATE DRAWN:  
06-29-09

DRAWN BY: F.T.M.

REVISÉ:

SCALE: 1" = 1000'



 = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on  
LOCATION: an N.G.S. OPUS Correction.  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

MONUMENT BUTTE EAST J-36-8-16  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 45.56"  
LONGITUDE = 110° 03' 37.83"



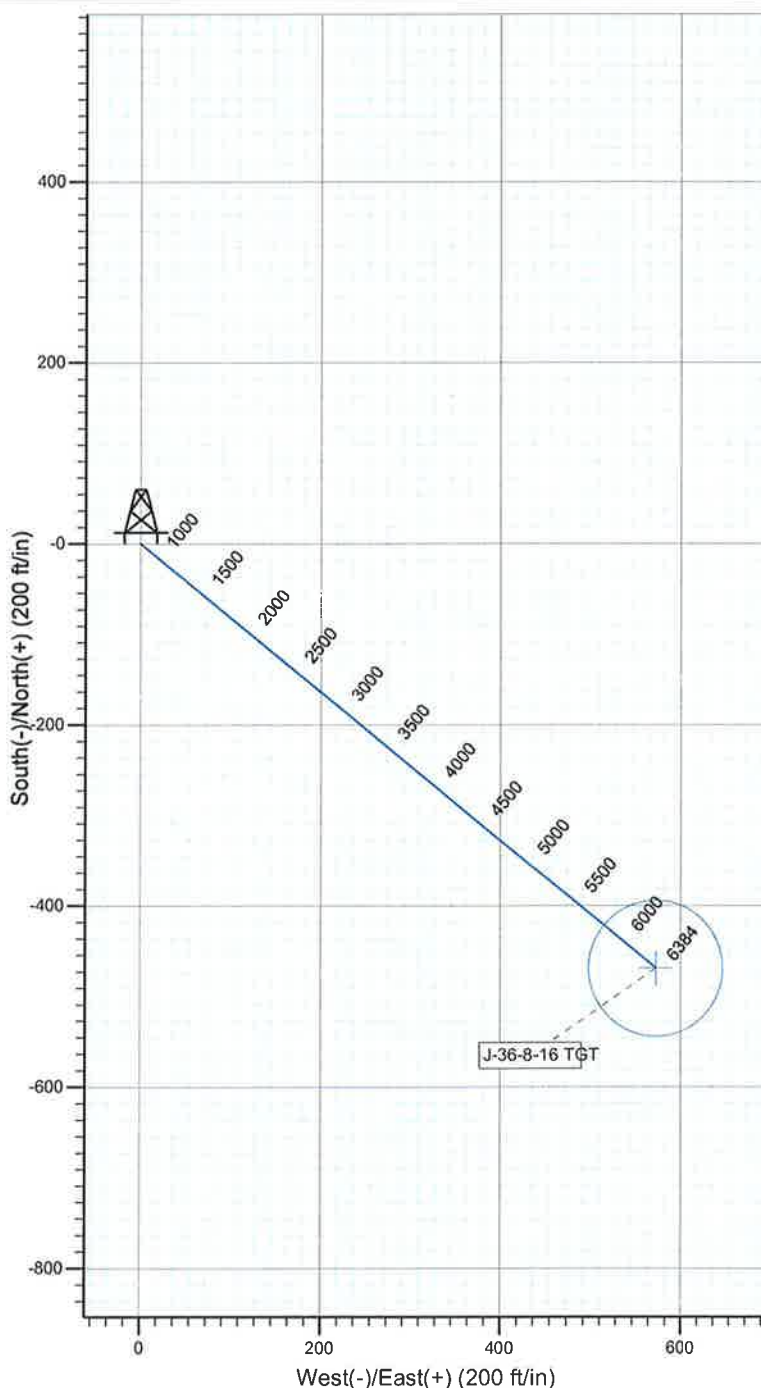
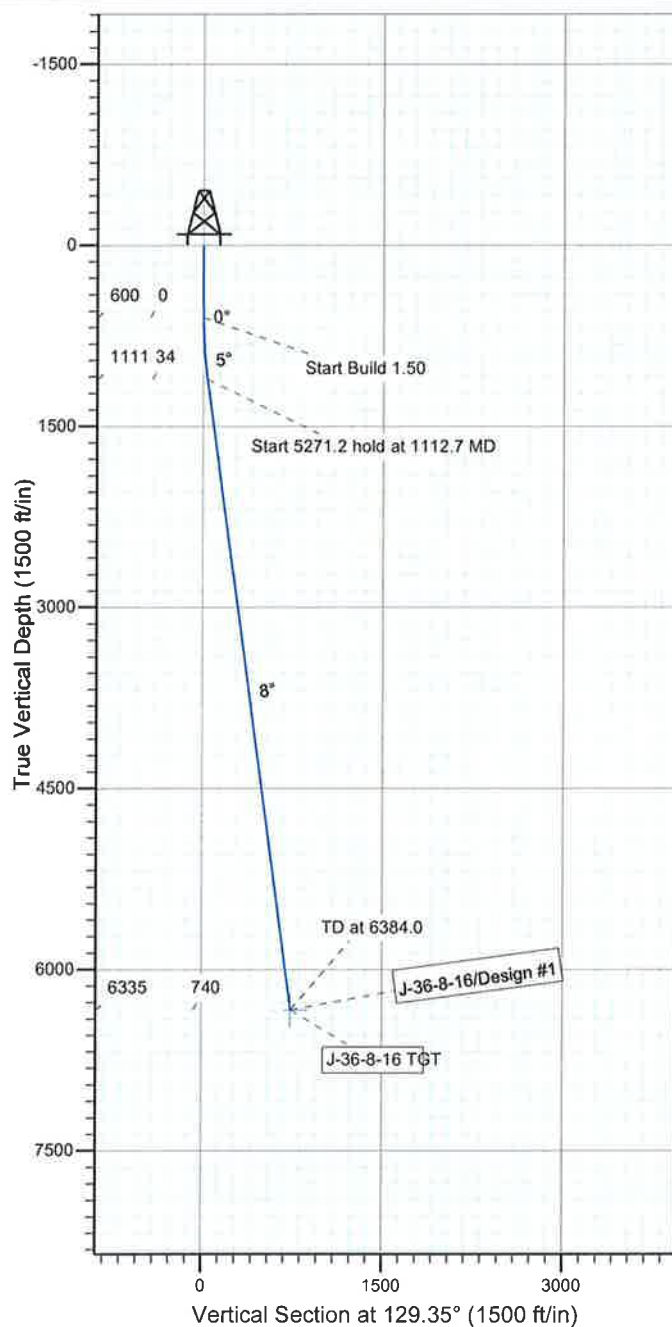
Project: USGS Myton SW (UT)  
 Site: SECTION 36  
 Well: J-36-8-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.55°

Magnetic Field  
 Strength: 52509.7snT  
 Dip Angle: 65.88°  
 Date: 2009/07/16  
 Model: IGRF200510

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100  
 TARGET RADIUS IS 75'



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
J-36-8-16 TGT	6335.0	-469.1	572.1	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1112.7	7.69	129.35	1111.2	-21.8	26.6	1.50	129.35	34.4	
4	6384.0	7.69	129.35	6335.0	-469.1	572.1	0.00	0.00	739.8	J-36-8-16 TGT





# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 36**

**J-36-8-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**16 July, 2009**



# HATHAWAY BURNHAM

## Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well J-36-8-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	J-36-8-16 @ 5349.0ft (RIG #2)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	J-36-8-16 @ 5349.0ft (RIG #2)
<b>Site:</b>	SECTION 36	<b>North Reference:</b>	True
<b>Well:</b>	J-36-8-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		Using geodetic scale factor

<b>Site</b>	SECTION 36, SEC 26 T8S, R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,202,697.00 ft	<b>Latitude:</b>	40° 5' 3.401 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,045,250.00 ft	<b>Longitude:</b>	110° 3' 10.915 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.93 °

<b>Well</b>	J-36-8-16, SHL LAT: 40 04 45.56, LONG: -110 03 37.83					
<b>Well Position</b>	<b>+N/-S</b>	-1,805.5 ft	<b>Northing:</b>	7,200,858.23 ft	<b>Latitude:</b>	40° 4' 45.560 N
	<b>+E/-W</b>	-2,092.1 ft	<b>Easting:</b>	2,043,187.46 ft	<b>Longitude:</b>	110° 3' 37.830 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,349.0 ft	<b>Ground Level:</b>	5,337.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	2009/07/16	11.55	65.88	52,510

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	6,335.0	0.0	0.0	129.35	

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,112.7	7.69	129.35	1,111.2	-21.8	26.6	1.50	1.50	0.00	129.35	
6,384.0	7.69	129.35	6,335.0	-469.1	572.1	0.00	0.00	0.00	0.00	J-36-8-16 TGT

NEWFIELD



## HATHAWAY BURNHAM

## Planning Report



Database: EDM 2003.21 Single User Db  
 Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 36  
 Well: J-36-8-16  
 Wellbore: Wellbore #1  
 Design: Design #1

Local Co-ordinate Reference: Well J-36-8-16  
 TVD Reference: J-36-8-16 @ 5349.0ft (RIG #2)  
 MD Reference: J-36-8-16 @ 5349.0ft (RIG #2)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	129.35	700.0	-0.8	1.0	1.3	1.50	1.50	0.00
800.0	3.00	129.35	799.9	-3.3	4.0	5.2	1.50	1.50	0.00
900.0	4.50	129.35	899.7	-7.5	9.1	11.8	1.50	1.50	0.00
1,000.0	6.00	129.35	999.3	-13.3	16.2	20.9	1.50	1.50	0.00
1,100.0	7.50	129.35	1,098.6	-20.7	25.3	32.7	1.50	1.50	0.00
1,112.7	7.69	129.35	1,111.2	-21.8	26.6	34.4	1.50	1.50	0.00
1,200.0	7.69	129.35	1,197.7	-29.2	35.6	46.0	0.00	0.00	0.00
1,300.0	7.69	129.35	1,296.8	-37.7	46.0	59.4	0.00	0.00	0.00
1,400.0	7.69	129.35	1,395.9	-46.2	56.3	72.8	0.00	0.00	0.00
1,500.0	7.69	129.35	1,495.0	-54.6	66.6	86.2	0.00	0.00	0.00
1,600.0	7.69	129.35	1,594.1	-63.1	77.0	99.6	0.00	0.00	0.00
1,700.0	7.69	129.35	1,693.2	-71.6	87.3	113.0	0.00	0.00	0.00
1,800.0	7.69	129.35	1,792.3	-80.1	97.7	126.3	0.00	0.00	0.00
1,900.0	7.69	129.35	1,891.4	-88.6	108.0	139.7	0.00	0.00	0.00
2,000.0	7.69	129.35	1,990.5	-97.1	118.4	153.1	0.00	0.00	0.00
2,100.0	7.69	129.35	2,089.6	-105.6	128.7	166.5	0.00	0.00	0.00
2,200.0	7.69	129.35	2,188.7	-114.0	139.1	179.9	0.00	0.00	0.00
2,300.0	7.69	129.35	2,287.8	-122.5	149.4	193.2	0.00	0.00	0.00
2,400.0	7.69	129.35	2,386.9	-131.0	159.8	206.6	0.00	0.00	0.00
2,500.0	7.69	129.35	2,486.0	-139.5	170.1	220.0	0.00	0.00	0.00
2,600.0	7.69	129.35	2,585.1	-148.0	180.5	233.4	0.00	0.00	0.00
2,700.0	7.69	129.35	2,684.2	-156.5	190.8	246.8	0.00	0.00	0.00
2,800.0	7.69	129.35	2,783.3	-165.0	201.2	260.2	0.00	0.00	0.00
2,900.0	7.69	129.35	2,882.4	-173.4	211.5	273.5	0.00	0.00	0.00
3,000.0	7.69	129.35	2,981.5	-181.9	221.9	286.9	0.00	0.00	0.00
3,100.0	7.69	129.35	3,080.6	-190.4	232.2	300.3	0.00	0.00	0.00
3,200.0	7.69	129.35	3,179.7	-198.9	242.6	313.7	0.00	0.00	0.00
3,300.0	7.69	129.35	3,278.8	-207.4	252.9	327.1	0.00	0.00	0.00
3,400.0	7.69	129.35	3,377.9	-215.9	263.3	340.5	0.00	0.00	0.00
3,500.0	7.69	129.35	3,477.0	-224.4	273.6	353.8	0.00	0.00	0.00
3,600.0	7.69	129.35	3,576.1	-232.8	284.0	367.2	0.00	0.00	0.00
3,700.0	7.69	129.35	3,675.2	-241.3	294.3	380.6	0.00	0.00	0.00
3,800.0	7.69	129.35	3,774.3	-249.8	304.7	394.0	0.00	0.00	0.00
3,900.0	7.69	129.35	3,873.4	-258.3	315.0	407.4	0.00	0.00	0.00
4,000.0	7.69	129.35	3,972.5	-266.8	325.4	420.8	0.00	0.00	0.00
4,100.0	7.69	129.35	4,071.6	-275.3	335.7	434.1	0.00	0.00	0.00
4,200.0	7.69	129.35	4,170.7	-283.8	346.1	447.5	0.00	0.00	0.00
4,300.0	7.69	129.35	4,269.8	-292.2	356.4	460.9	0.00	0.00	0.00
4,400.0	7.69	129.35	4,368.9	-300.7	366.8	474.3	0.00	0.00	0.00
4,500.0	7.69	129.35	4,468.0	-309.2	377.1	487.7	0.00	0.00	0.00
4,600.0	7.69	129.35	4,567.1	-317.7	387.5	501.0	0.00	0.00	0.00
4,700.0	7.69	129.35	4,666.2	-326.2	397.8	514.4	0.00	0.00	0.00
4,800.0	7.69	129.35	4,765.3	-334.7	408.2	527.8	0.00	0.00	0.00
4,900.0	7.69	129.35	4,864.4	-343.1	418.5	541.2	0.00	0.00	0.00
5,000.0	7.69	129.35	4,963.5	-351.6	428.8	554.6	0.00	0.00	0.00
5,100.0	7.69	129.35	5,062.6	-360.1	439.2	568.0	0.00	0.00	0.00
5,200.0	7.69	129.35	5,161.7	-368.6	449.5	581.3	0.00	0.00	0.00





# HATHAWAY BURNHAM

## Planning Report



**Database:** EDM 2003.21 Single User Db  
**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 36  
**Well:** J-36-8-16  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well J-36-8-16  
**TVD Reference:** J-36-8-16 @ 5349.0ft (RIG #2)  
**MD Reference:** J-36-8-16 @ 5349.0ft (RIG #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	7.69	129.35	5,260.8	-377.1	459.9	594.7	0.00	0.00	0.00
5,400.0	7.69	129.35	5,359.9	-385.6	470.2	608.1	0.00	0.00	0.00
5,500.0	7.69	129.35	5,459.0	-394.1	480.6	621.5	0.00	0.00	0.00
5,600.0	7.69	129.35	5,558.1	-402.5	490.9	634.9	0.00	0.00	0.00
5,700.0	7.69	129.35	5,657.2	-411.0	501.3	648.3	0.00	0.00	0.00
5,800.0	7.69	129.35	5,756.3	-419.5	511.6	661.6	0.00	0.00	0.00
5,900.0	7.69	129.35	5,855.4	-428.0	522.0	675.0	0.00	0.00	0.00
6,000.0	7.69	129.35	5,954.5	-436.5	532.3	688.4	0.00	0.00	0.00
6,100.0	7.69	129.35	6,053.6	-445.0	542.7	701.8	0.00	0.00	0.00
6,200.0	7.69	129.35	6,152.7	-453.5	553.0	715.2	0.00	0.00	0.00
6,300.0	7.69	129.35	6,251.8	-461.9	563.4	728.6	0.00	0.00	0.00
6,384.0	7.69	129.35	6,335.0	-469.1	572.1	739.8	0.00	0.00	0.00

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
J-36-8-16 TGT	0.00	0.00	6,335.0	-469.1	572.1	7,200,398.47	2,043,766.95	40° 4' 40.924 N	110° 3' 30.471 W
- plan hits target									
- Circle (radius 75.0)									

NEWFIELD PRODUCTION COMPANY  
MONUMENT BUTTE EAST STATE J-36-8-16  
AT SURFACE: NE/NE SECTION 36, T8S, R16E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1655'
Green River	1655'
Wasatch	6384'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1655' – 6384' – Oil

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

**PROPOSED CASING PROGRAM: :**

**a. Casing Design: Monument Butte East State J-36-8-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	350'	24.0	J-55	STC	2,950 15.02	1,370 12.30	244,000 29.05
Prod casing 5-1/2"	0'	6,384'	15.5	J-55	LTC	4,810 2.37	4,040 1.99	217,000 2.19

**Assumptions:**

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg  
Pore pressure at surface casing shoe = 8.33 ppg  
Pore pressure at prod casing shoe = 8.33 ppg  
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

**b. Cementing Design: Monument Butte East State J-36-8-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	350'	Class G w/ 2% CaCl	161 188	30%	15.8	1.17
Prod casing Lead	4,384'	Prem Lite II w/ 10% gel + 3% KCl	303 987	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

\*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

4. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

5. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 350$  feet will be drilled with an air/mist system. From about 350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

6. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

7. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 350' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

8. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

9. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Ten Point Well Program &  
Thirteen Point Well Program  
Page 4 of 9

It is anticipated that the drilling operations will commence the fourth quarter of 2009, and take approximately seven (7) days from spud to rig release.

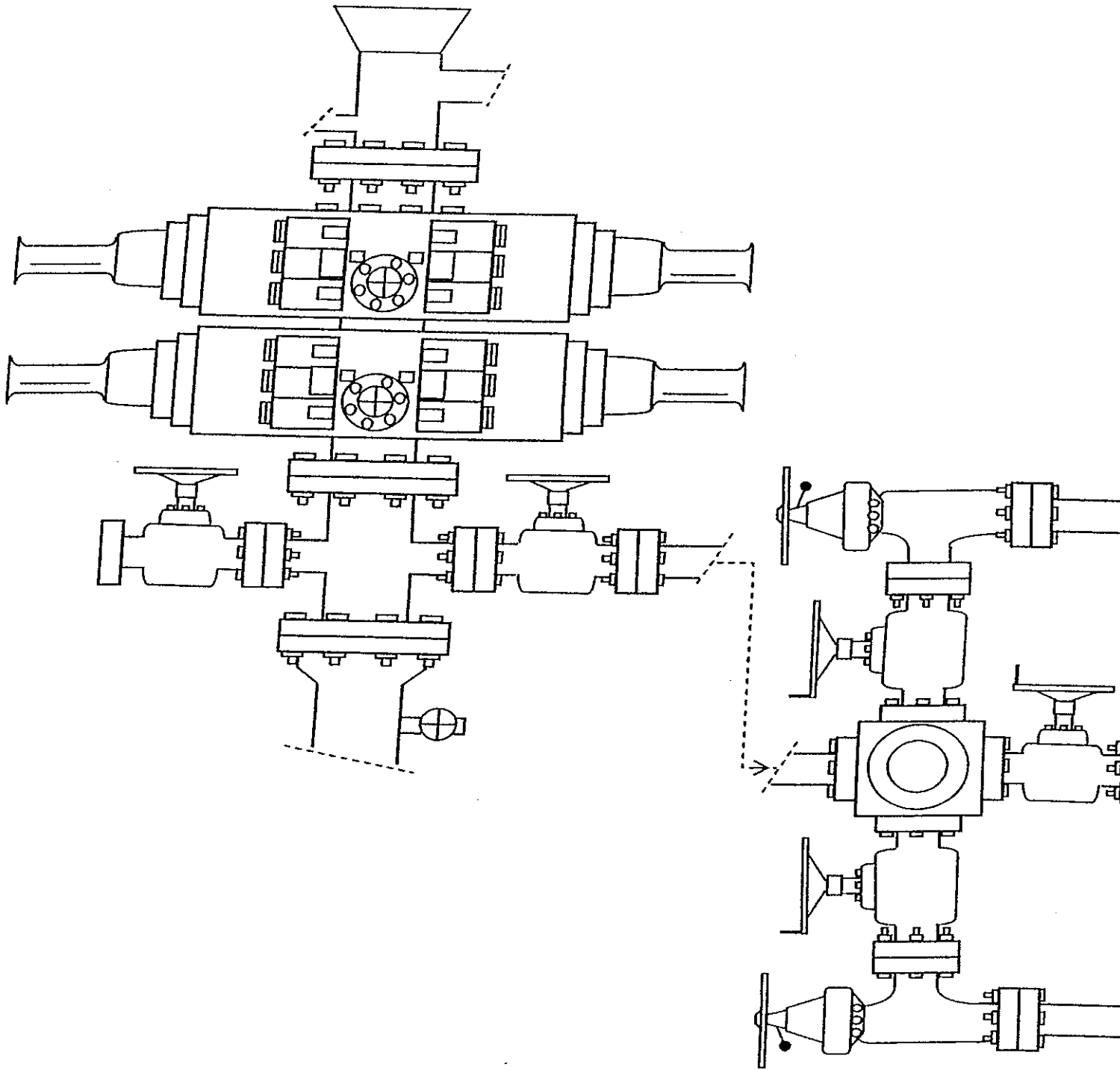
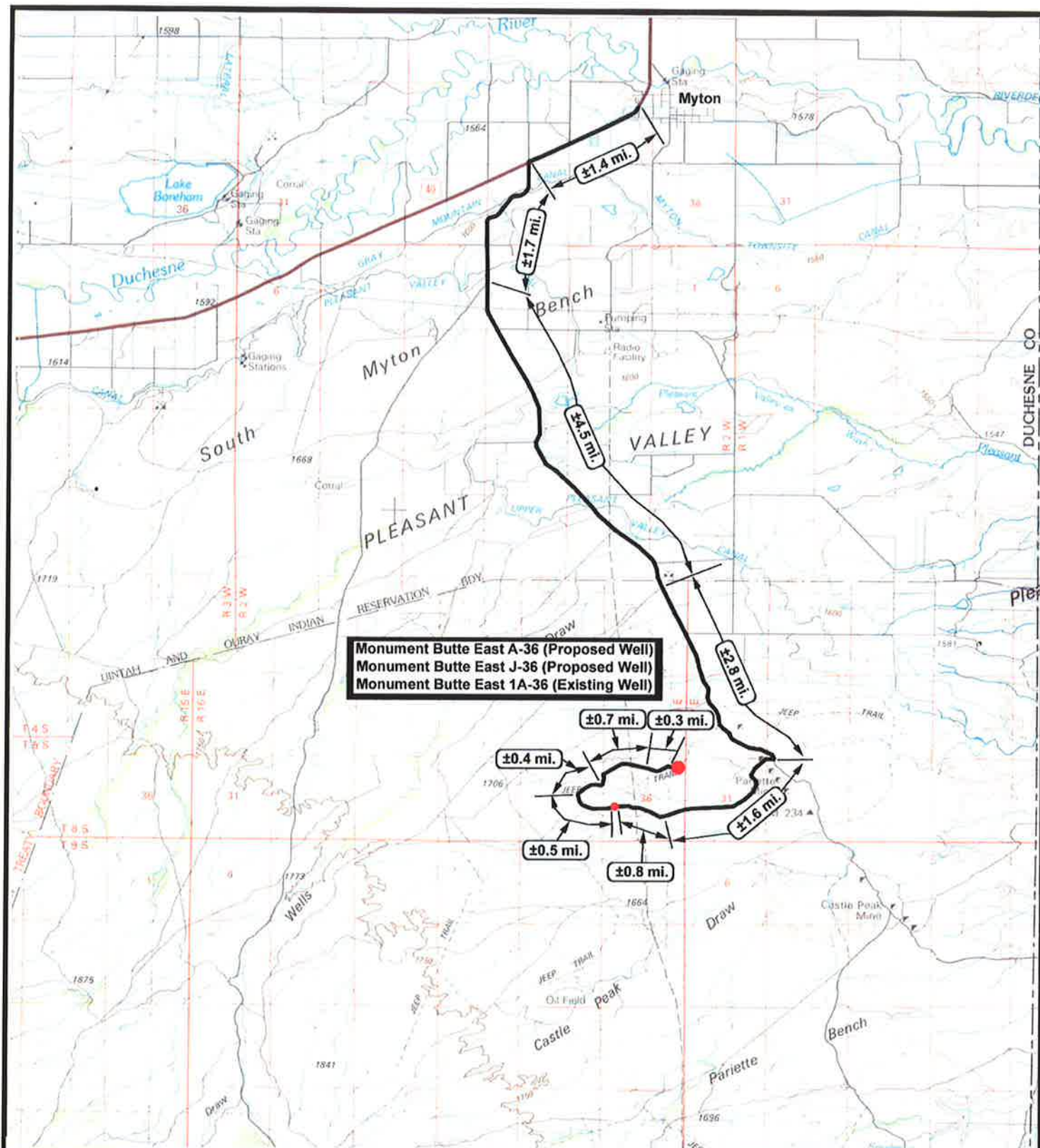



EXHIBIT C





**NEWFIELD**  
Exploration Company


**Monument Butte East A-36-8-16 (Proposed Well)**  
**Monument Butte East J-36-8-16 (Proposed Well)**  
**Monument Butte East 1A-36-8-16 (Existing Well)**  
 Pad Location: NENE SEC. 36, T8S, R16E, S.L.B.&M.



**Tri-State**  
Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: JAS**  
**DATE: 06-26-2009**




**Legend**

 Existing Road

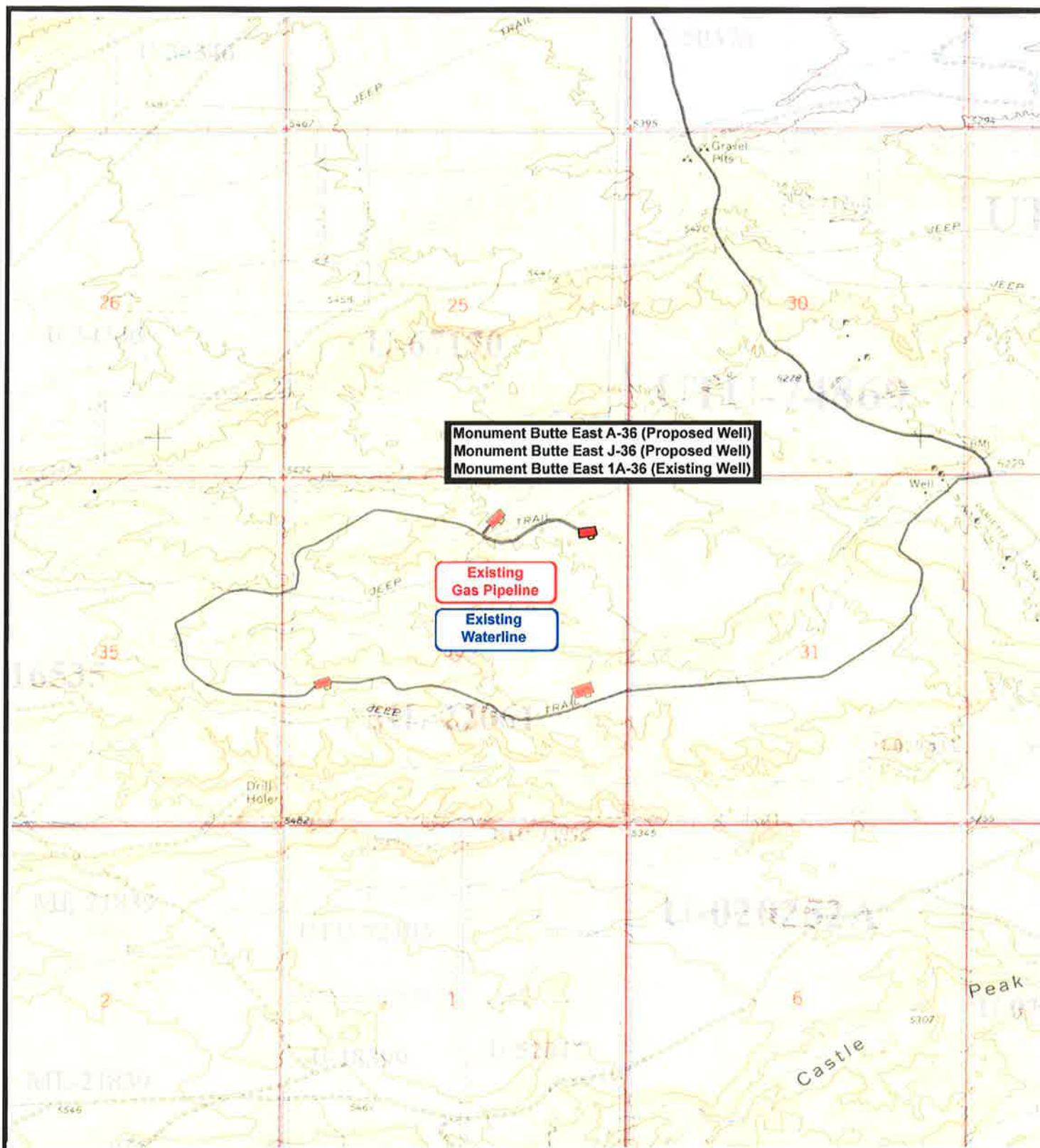
**TOPOGRAPHIC MAP**  
**"A"**








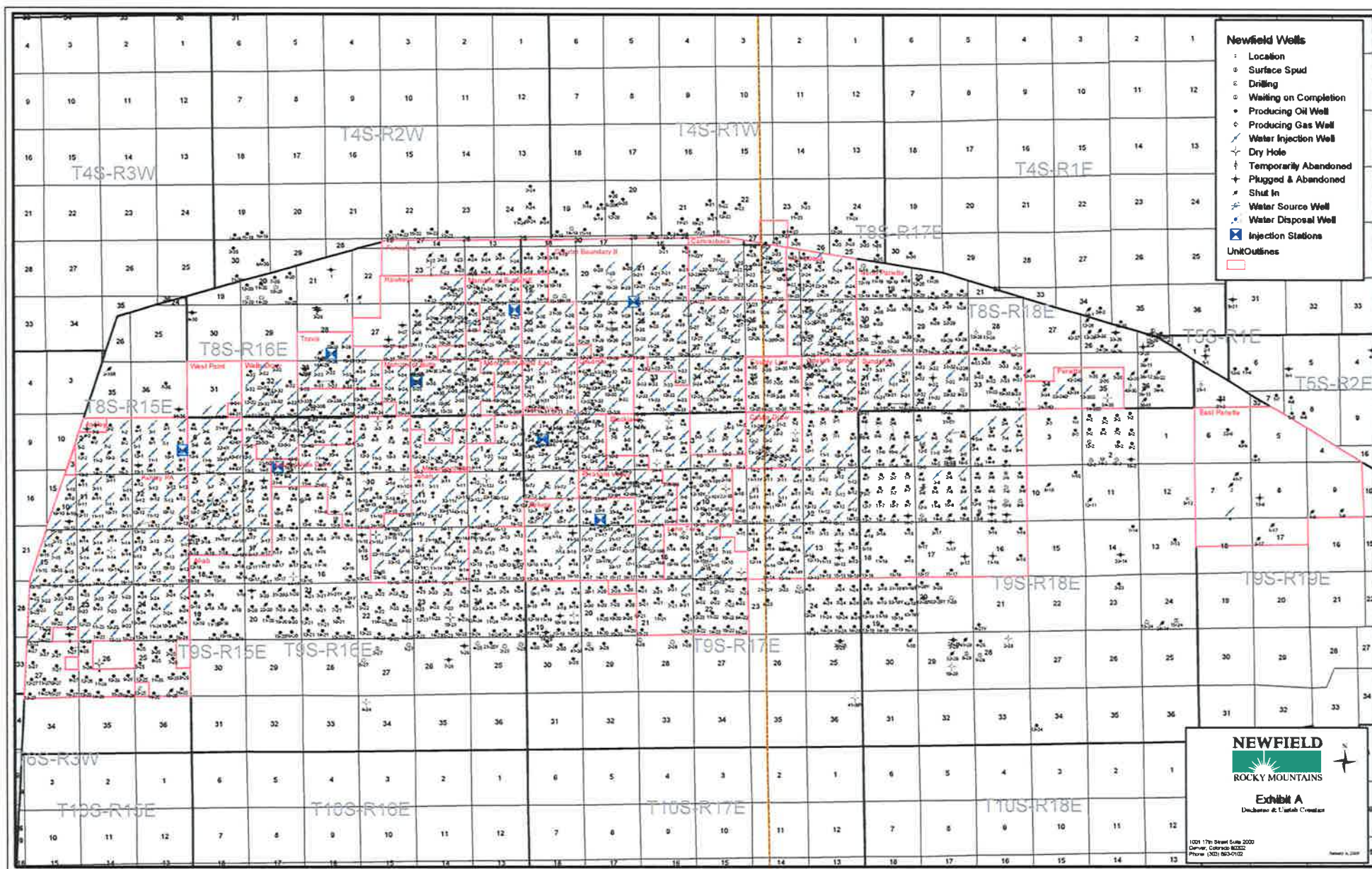
 <p><b>NEWFIELD</b> Exploration Company</p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p><b>Legend</b></p>
<p><b>Monument Butte East A-36-8-16 (Proposed Well)</b>  <b>Monument Butte East J-36-8-16 (Proposed Well)</b>  <b>Monument Butte East 1A-36-8-16 (Existing Well)</b>                  Pad Location: NENE SEC. 36, T8S, R16E, S.L.B.&amp;M.</p>		<p><b>SCALE:</b> 1" = 2,000'  <b>DRAWN BY:</b> JAS  <b>DATE:</b> 06-26-2009</p>	<p><b>Existing Road</b></p> <p><b>TOPOGRAPHIC MAP</b></p> <p><b>"B"</b></p>

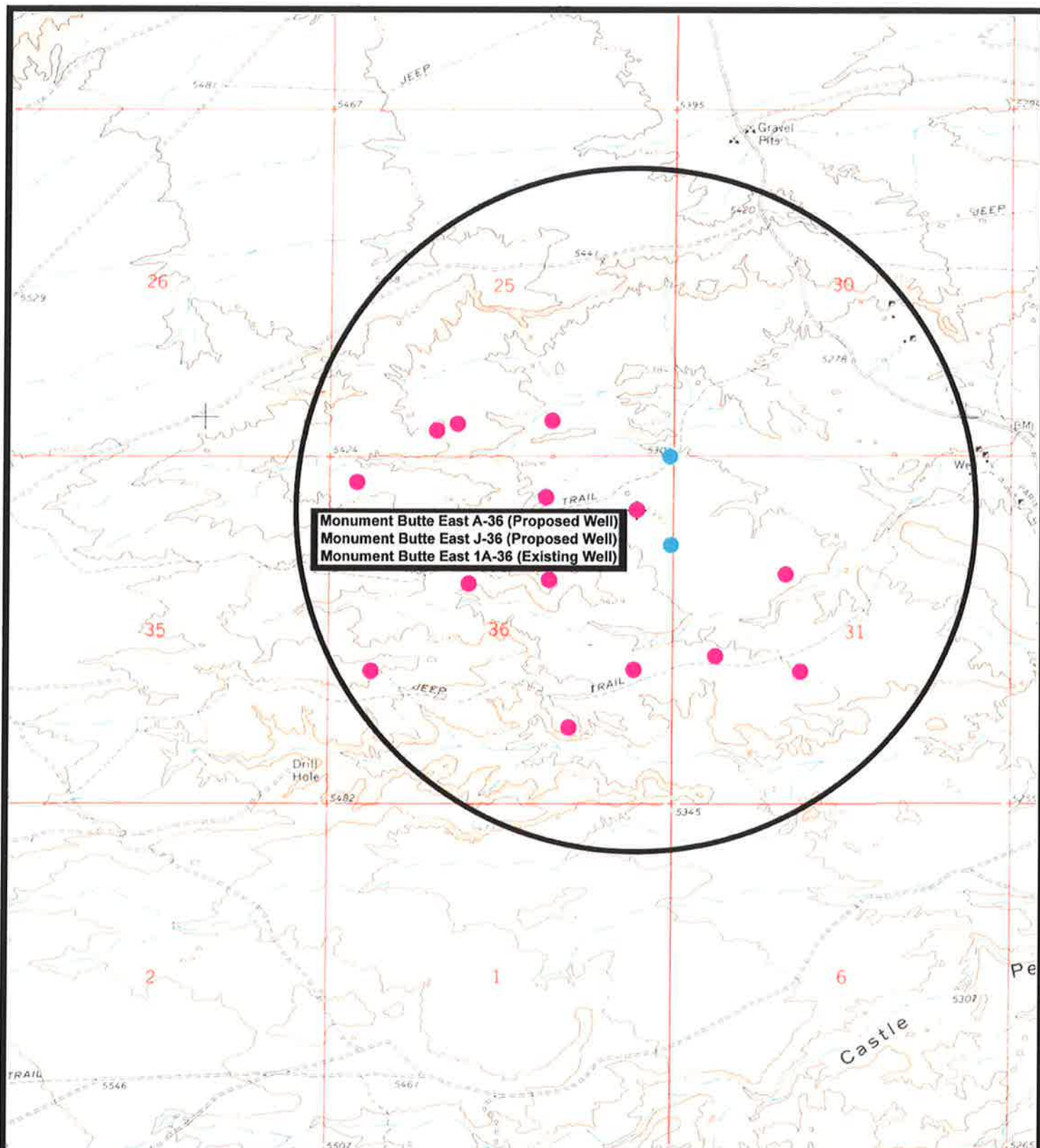




 <p><b>NEWFIELD</b> Exploration Company</p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p><b>Legend</b></p>
<p><b>Monument Butte East A-36-8-16 (Proposed Well)</b>  <b>Monument Butte East J-36-8-16 (Proposed Well)</b>  <b>Monument Butte East 1A-36-8-16 (Existing Well)</b>          Pad Location: NENE SEC. 36, T8S, R16E, S.L.B.&amp;M.</p>		<p><b>SCALE:</b> 1" = 2,000'  <b>DRAWN BY:</b> JAS  <b>DATE:</b> 06-26-2009</p>	<p><b>TOPOGRAPHIC MAP</b></p> <p><b>"C"</b></p>







**Monument Butte East A-36-8-16 (Proposed Well)**  
**Monument Butte East J-36-8-16 (Proposed Well)**  
**Monument Butte East 1A-36-8-16 (Existing Well)**  
 Pad Location: NENE SEC. 36, T8S, R16E, S.L.B.&M.



*Tri-State*  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: JAS**  
**DATE: 06-26-2009**

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Exhibit "B"**



NEWFIELD PRODUCTION COMPANY  
MONUMENT BUTTE EAST STATE J-36-8-16  
AT SURFACE: NE/NE SECTION 36, T8S, R16E  
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Monument Butte East State J-36-8-16 located in the NE ¼ NE ¼ Section 36, T8S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 -- 9.0 miles ± to it's junction with an existing road to the west; proceed southwesterly -- 2.9 miles ± to it's junction with an existing road to the northeast; proceed northeasterly -- 1.4 miles to the existing 1A-36-8-16 well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled off of the existing 1A-36-8-16 well pad. See attached **Topographic Map "B"**.

There will be no new gates or cattle guards required.

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the existing 1A-36-8-16 well pad. There will be a pumping unit and a short flow line added to the existing tank battery for the proposed J-36-8-16.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Carlsbad Canyon. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Monument Butte East State J-36-8-16 will be drilled off of the existing 1A-36-8-16 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the

produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

**Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Monument Butte East State J-36-8-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Monument Butte East State J-36-8-16 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Ten Point Well Program &  
Thirteen Point Well Program  
Page 8 of 8

Name: Tim Eaton  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #J-36-8-16, NE/NE Section 36, T8S, R16E, LEASE #ML-22061, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

8/17/09  
Date

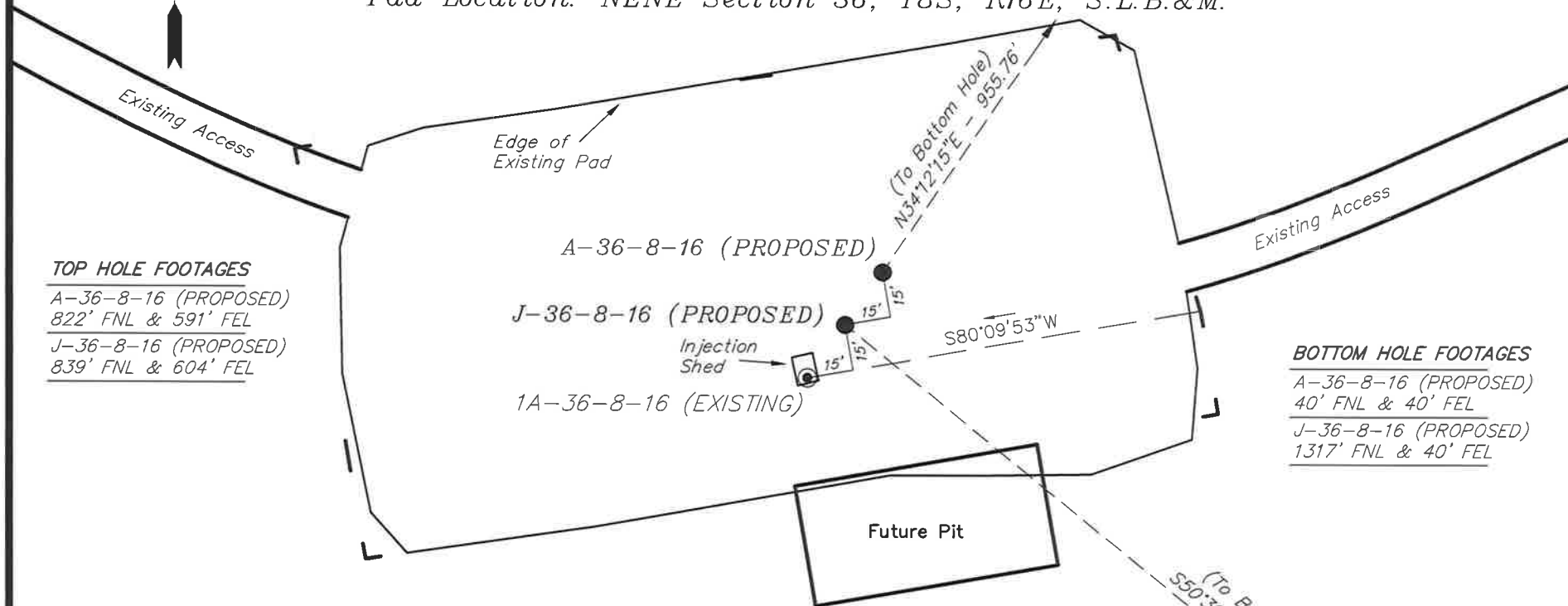
  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

MONUMENT BUTTE EAST A-36-8-16 (Proposed Well)  
 MONUMENT BUTTE EAST J-36-8-16 (Proposed Well)  
 MONUMENT BUTTE EAST 1A-36-8-16 (Existing Well)  
 Pad Location: NENE Section 36, T8S, R16E, S.L.B.&M.



### TOP HOLE FOOTAGES

A-36-8-16 (PROPOSED)  
 822' FNL & 591' FEL  
 J-36-8-16 (PROPOSED)  
 839' FNL & 604' FEL

### BOTTOM HOLE FOOTAGES

A-36-8-16 (PROPOSED)  
 40' FNL & 40' FEL  
 J-36-8-16 (PROPOSED)  
 1317' FNL & 40' FEL

### Note:

Bearings are based on  
 GLO Information.

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
A-36-8-16	790'	537'
J-36-8-16	-469'	572'

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
A-36-8-16	40° 04' 45.73"	110° 03' 37.67"
J-36-8-16	40° 04' 45.56"	110° 03' 37.83"
1A-36-8-16	40° 04' 45.39"	110° 03' 37.99"

SURVEYED BY: T.H. DATE SURVEYED: 06-16-09  
 DRAWN BY: F.T.M. DATE DRAWN: 06-29-09  
 SCALE: 1" = 50' REVISED:

**Tri State**  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 (435) 781-2501

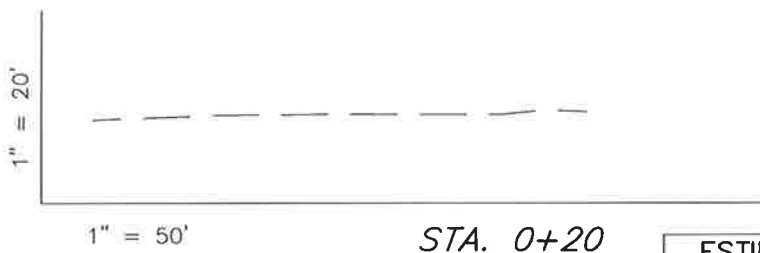
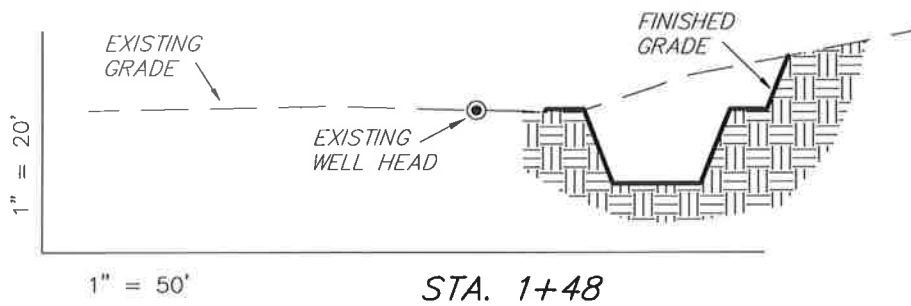
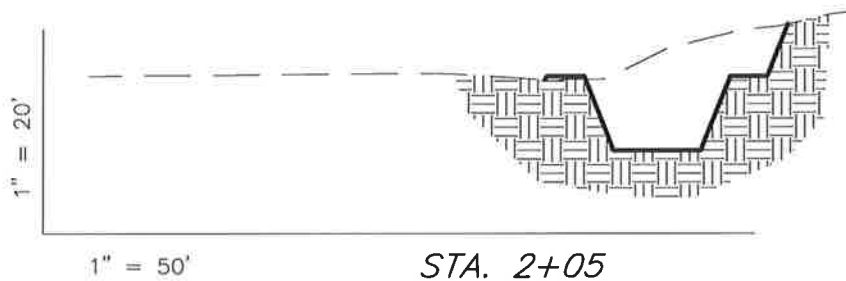
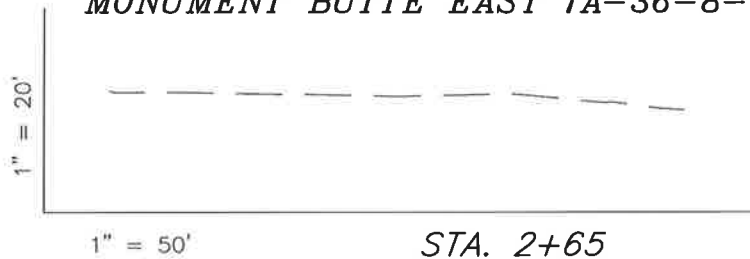
# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

MONUMENT BUTTE EAST A-36-8-16 (Proposed Well)

MONUMENT BUTTE EAST J-36-8-16 (Proposed Well)

MONUMENT BUTTE EAST 1A-36-8-16 (Existing Well)



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

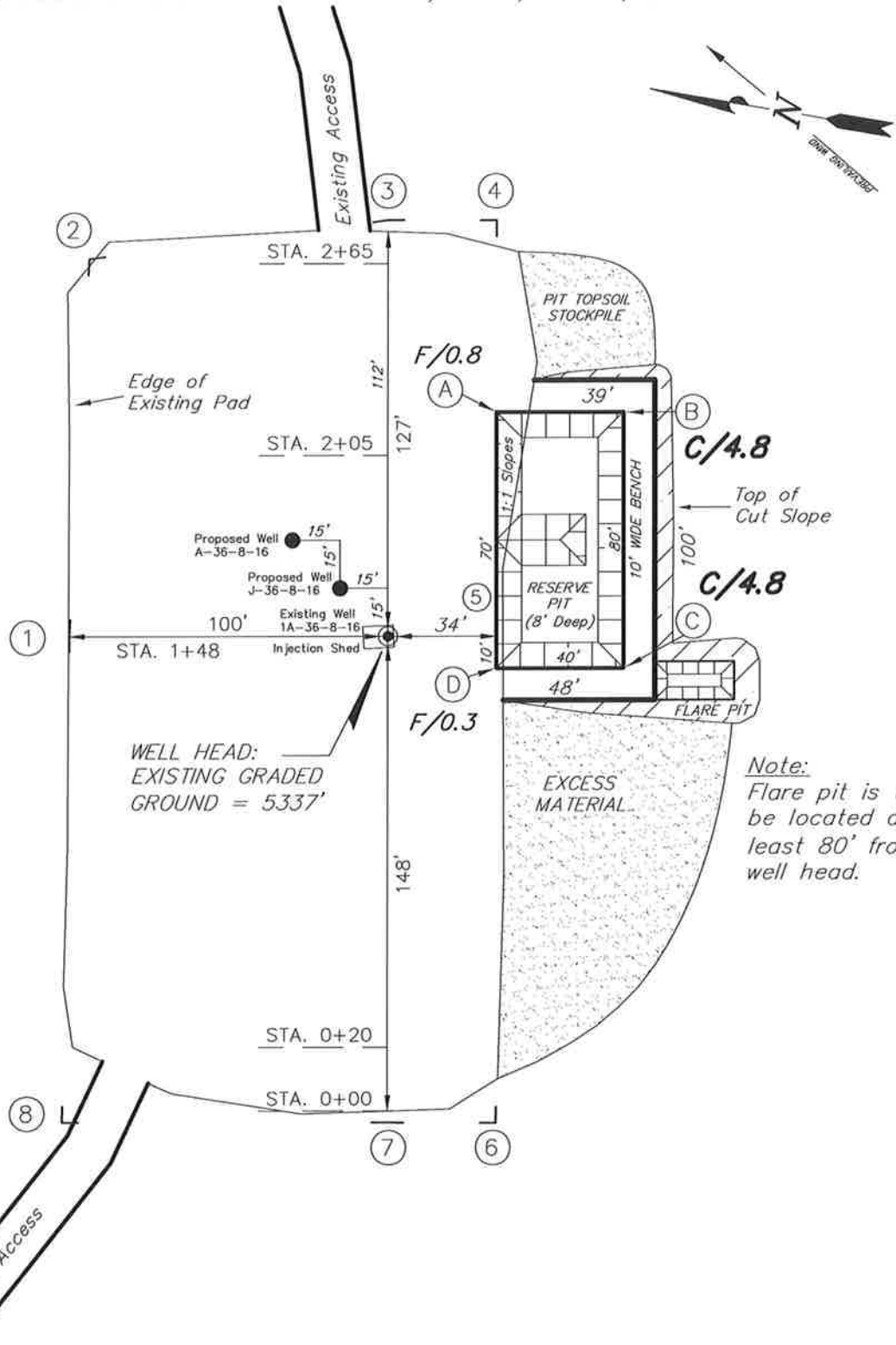
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	580	10	Topsoil is not included in Pad Cut	570
PIT	640	0		640
TOTALS	1,220	10	140	1,210

SURVEYED BY: T.H.	DATE SURVEYED: 06-18-09
DRAWN BY: F.T.M.	DATE DRAWN: 06-24-09
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# **NEWFIELD PRODUCTION COMPANY**

MONUMENT BUTTE EAST A-36-8-16 (Proposed Well)  
 MONUMENT BUTTE EAST J-36-8-16 (Proposed Well)  
 MONUMENT BUTTE EAST 1A-36-8-16 (Existing Well)  
 Pad Location: NENE Section 36, T8S, R16E, S.L.B.&M.



Note:  
 Flare pit is to  
 be located at  
 least 80' from  
 well head.

SURVEYED BY: T.H.	DATE SURVEYED: 06-18-09
DRAWN BY: F.T.M.	DATE DRAWN: 06-24-09
SCALE: 1" = 50'	REVISED:

**Tri State**  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 (435) 781-2501

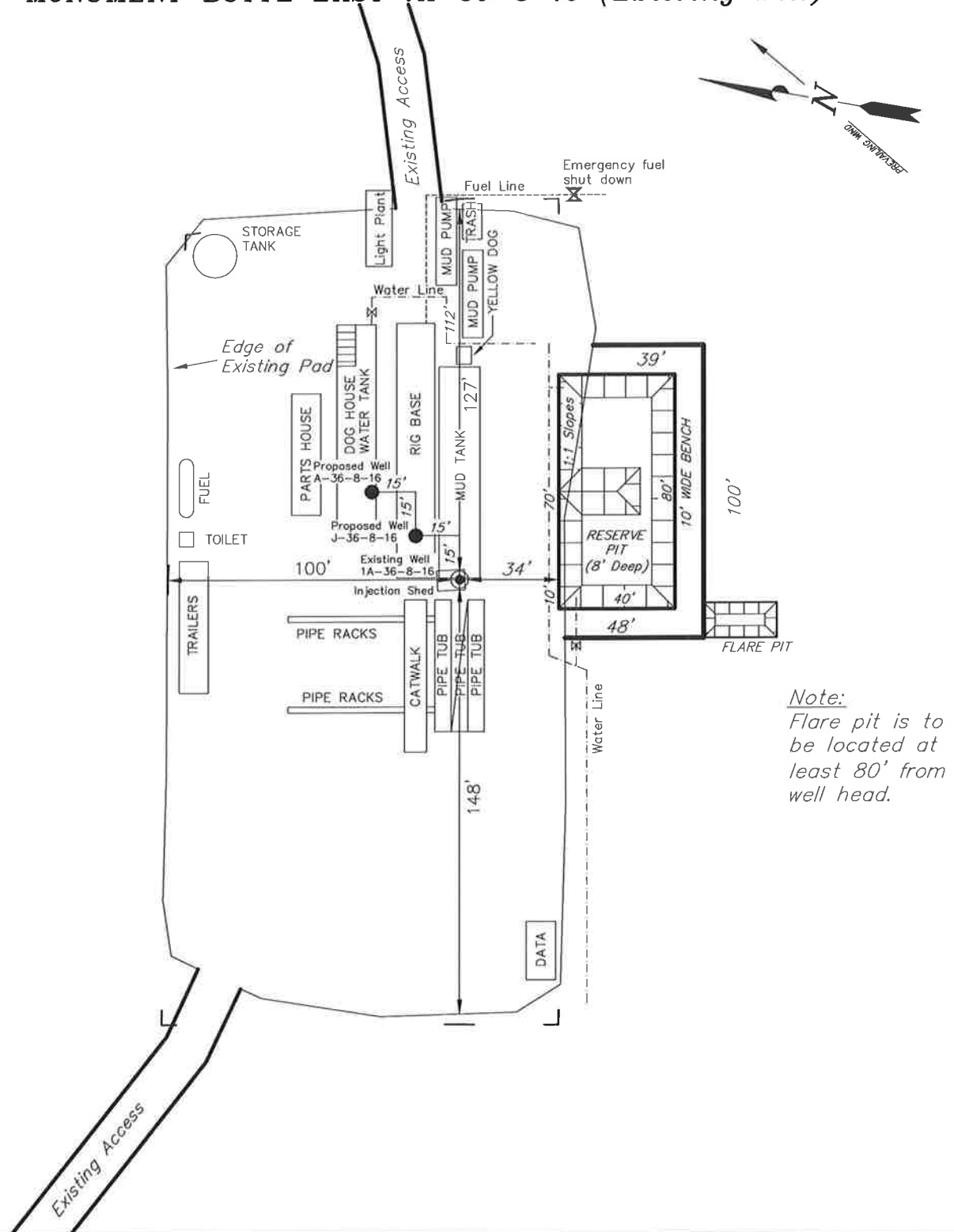
# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

MONUMENT BUTTE EAST A-36-8-16 (Proposed Well)

MONUMENT BUTTE EAST J-36-8-16 (Proposed Well)

MONUMENT BUTTE EAST 1A-36-8-16 (Existing Well)



SURVEYED BY: T.H.	DATE SURVEYED: 06-18-09
DRAWN BY: F.T.M.	DATE DRAWN: 06-24-09
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# Newfield Production Company Proposed Site Facility Diagram

Monument Butte East State J-36-8-16

From the Mon. Butte State 1A-36-8-16 Location

NE/NE Sec. 36 T8S, R16E

Duchesne County, Utah

ML-22061

Site Security Plan is held at the Pleasant Valley  
Office, Duchesne County Utah

## Production Phase:

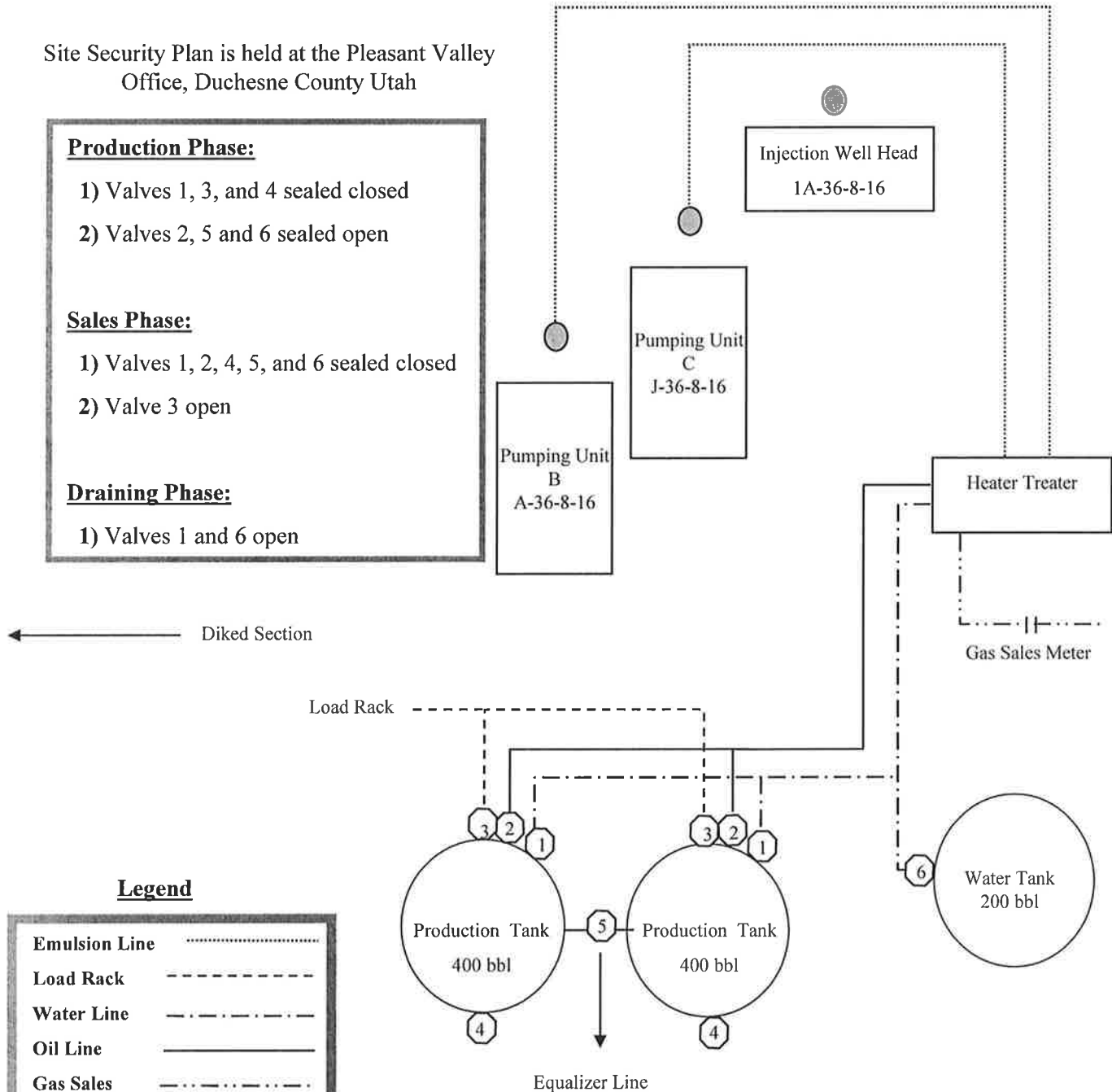
- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5 and 6 sealed open

## Sales Phase:

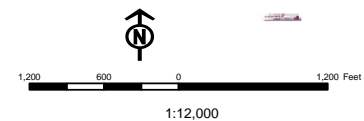
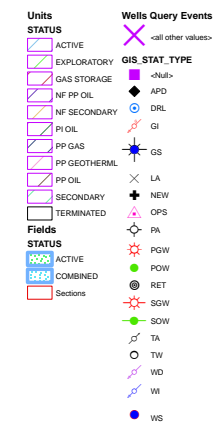
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

## Draining Phase:

- 1) Valves 1 and 6 open



Map Prepared:  
Map Produced by Diana Mason



**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana  
**Date:** 8/31/2009 9:01 AM  
**Subject:** SITLA well approvals (Newfield 16)

**CC:** Garrison, LaVonne

The following wells have been approved by SITLA including arch and paleo clearance.

Monument Butte East State A-36-8-16 [API #4301350105],

Monument Butte East State J-36-8-16 [API #4301350106],

Monument Butte East State B-36-8-16 [API #4301350107],

Monument Butte East State C-36-8-16 [API #4301350108],

Monument Butte East State G-36-8-16 [API #4301350109],

Monument Butte East State M-36-8-16 [API #4301350110],

Monument Butte East State H-36-8-16 [API #4301350111],

Monument Butte State Q-36-8-16 [API #4301350113],

Monument Butte East State R-36-8-16 [API #4301350114],

Monument Butte State G-2-9-16 [API #4301350115],

South Monument Butte State M-2-9-16 [API #4301350116],

South Monument Butte State N-2-9-16 [API #4301350117],

South Monument Butte State P-2-9-16 [API #4301350118],

South Monument Butte State X-2-9-16 [API #4301350119],

South Monument Butte State V-2-9-16 [API #4301350120],

South Monument Butte State W-2-9-16 [API #4301350121]

These wells are still waiting for approvals of one kind or another:

Monument Butte East Federal V-35-8-16, Host well 2-2-9-16, no new disturbance (State surface, Federal mineral)  
Monument Butte East Federal W-35-8-16, Host well 2-2-9-16, no new disturbance (State surface, Federal mineral)  
Monument Butte East State K-36-8-16 [API #4301350112], Host well 9-36-8-16, new disturbance

-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156



Well Name	NEWFIELD PRODUCTION COMPANY Monument Butte East State J-36-8-			
String	Surf	Prod		
Casing Size(in)	8.625	5.500		
Setting Depth (TVD)	350	6335		
Previous Shoe Setting Depth (TVD)	0	350		
Max Mud Weight (ppg)	8.3	8.6		
BOPE Proposed (psi)	0	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2743	8.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$	151	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$	109	NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$	74	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	74	NO Reasonable Depth
Required Casing/BOPE Test Pressure=		350	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

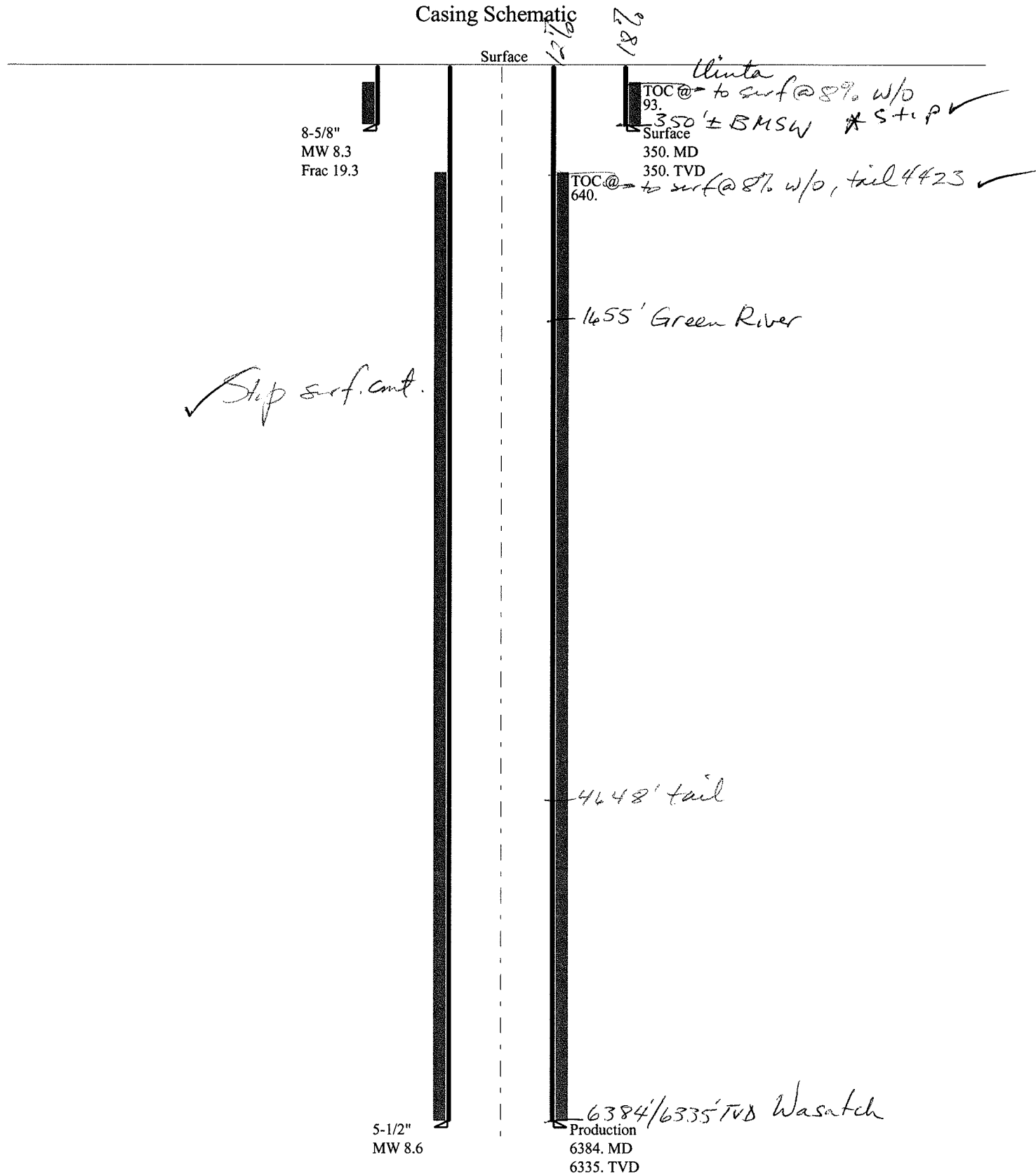
Calculations	Prod String	5.500	"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$	2833	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$	2073	NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$	1439	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	1516	NO Reasonable for area
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		350	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43013501060000 Monument Butte East State J-36-8-16

Casing Schematic



Well name:	<b>43013501060000 Monument Butte East State J-36-8-16</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Surface	Project ID:	43-013-50106
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 79 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 93 ft

**Burst**

Max anticipated surface pressure: 308 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 350 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 306 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 6,335 ft  
Next mud weight: 8.600 ppg  
Next setting BHP: 2,830 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 350 ft  
Injection pressure: 350 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	350	8.625	24.00	J-55	ST&C	350	350	7.972	1802

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	151	1370	9.046	350	2950	8.43	8.4	244	29.05 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 3, 2009  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 350 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43013501060000 Monument Butte East State J-36-8-16</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Production	Project ID:	43-013-50106
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.600 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 163 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 640 ft

**Burst**

Max anticipated surface pressure: 1,436 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 2,830 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 5,552 ft

**Directional Info - Build & Hold**

Kick-off point 600 ft  
Departure at shoe: 740 ft  
Maximum dogleg: 1.5 °/100ft  
Inclination at shoe: 7.69 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	6384	5.5	15.50	J-55	LT&C	6335	6384	4.825	22542

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2830	4040	1.427	2830	4810	1.70	98.2	217	2.21 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 3, 2009  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6335 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*



November 23, 2009

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**Monument Butte East State J-36-8-16**  
Greater Monument Butte (Green River) Unit  
ML-22061  
Surface Hole: T8S-R16E Section 36: NENE  
839' FNL 604' FEL

43-013-50100

At Target: T8S-R16E Section 36: NENE  
1317' FNL 40' FEL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 8/17/09, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at [sgillespie@newfield.com](mailto:sgillespie@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

A handwritten signature in blue ink, appearing to read "Shane Gillespie".

Shane Gillespie  
Land Associate

RECEIVED

NOV 30 2009

DIV OF OIL, GAS & MINING

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

**IN REPLY REFER TO:**

3160

(UT-922)

December 11, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50112 MB East State	K-36-8-16 Sec 36 T08S R16E 2004 FSL 0706 FEL	BHL Sec 36 T08S R16E 2560 FNL 0040 FEL
43-013-50111 MB East State	H-36-8-16 Sec 36 T08S R16E 1896 FNL 1955 FEL	BHL Sec 36 T08S R16E 1280 FNL 2597 FEL
43-013-50110 MB East State	M-36-8-16 Sec 36 T08S R16E 1956 FNL 2075 FWL	BHL Sec 36 T08S R16E 2560 FNL 2536 FWL
43-013-50109 MB East State	G-36-8-16 Sec 36 T08S R16E 1972 FNL 2061 FWL	BHL Sec 36 T08S R16E 1242 FNL 1280 FWL
43-013-50108 MB East State	C-36-8-16 Sec 36 T08S R16E 0624 FNL 1996 FEL	BHL Sec 36 T08S R16E 0040 FNL 2635 FEL
43-013-50107 MB East State	B-36-8-16 Sec 36 T08S R16E 0603 FNL 1995 FEL	BHL Sec 36 T08S R16E 0040 FNL 1280 FEL
43-013-50106 MB East State	J-36-8-16 Sec 36 T08S R16E 0839 FNL 0604 FEL	BHL Sec 36 T08S R16E 1317 FNL 0040 FEL
43-013-50105 MB East State	A-36-8-16 Sec 36 T08S R16E 0822 FNL 0591 FEL	BHL Sec 36 T08S R16E 0040 FNL 0040 FEL

Page 2

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50114	MB East State	R-36-8-16 Sec 36 T08S R16E 0842 FSL 2124 FEL BHL Sec 36 T08S R16E 1317 FSL 2612 FWL
43-013-50149	Federal	14-29-8-16 Sec 29 T08S R16E 0679 FSL 2241 FWL
43-047-50490	Federal	6-31-8-19 Sec 31 T08S R19E 0473 FNL 1813 FWL
43-013-50061	Federal	3-27-8-16 Sec 27 T08S R16E 0748 FNL 2211 FWL
43-047-40594	Federal	10-20-8-18 Sec 20 T08S R18E 2138 FSL 3060 FWL

Our records indicate the Federal 10-20-8-18 is closer than 460 feet from the Greater Monument Butte Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:12-11-09

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** Monument Butte East State J-36-8-16  
**API Number** 43013501060000 **APD No** 1899 **Field/Unit** MONUMENT BUTTE  
**Location: 1/4,1/4** NENE **Sec** 36 **Tw** 8.0S **Rng** 16.0E 839 FNL 604 FEL  
**GPS Coord (UTM)** 580169 4436781 **Surface Owner**

### **Participants**

Floyd Bartlett (DOGM), Tim Eaton (Newfield).

### **Regional/Local Setting & Topography**

The proposed Monument Butte East StateA-36-8-16 and the Monument Butte East State J-36-8-16 are proposed oil wells to be directionally drilled from the existing pad of the Monument Butte East State 1A-36-8-16 water flood injection well. No changes are planned to the existing pad. The reserve pit will be re-dug near the original location in the southeast side of the pad. The wells are on 20-acre spacing.

A field review of the site and the existing pad showed no concerns and should be suitable for drilling and operating the proposed additional wells.

SITLA owns both the surface and the minerals.

### **Surface Use Plan**

#### **Current Surface Use**

Existing Well Pad

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
	<b>Width Length</b>		
0			

#### **Ancillary Facilities**

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

#### **Affected Floodplains and/or Wetlands**

#### **Flora / Fauna**

Existing Well Pad

#### **Soil Type and Characteristics**

#### **Erosion Issues**

#### **Sedimentation Issues**

#### **Site Stability Issues**

#### **Drainage Diverson Required?**

#### **Berm Required?**



**Erosion Sedimentation Control Required?**

**Paleo Survey Run?**

**Paleo Potential Observed?**

**Cultural Survey Run?**

**Cultural Resources?**

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	100 to 200	5	
<b>Distance to Surface Water (feet)</b>	>1000	0	
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0	
<b>Distance to Other Wells (feet)</b>		20	
<b>Native Soil Type</b>	Mod permeability	10	
<b>Fluid Type</b>	Fresh Water	5	
<b>Drill Cuttings</b>	Normal Rock	0	
<b>Annual Precipitation (inches)</b>		0	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	<b>Final Score</b>	40	1 Sensitivity Level

**Characteristics / Requirements**

A reserve pit will be re-dug near the original location. Its dimensions are 80' x 40' x 8' deep. A 10-foot wide bench is provided around the outside. A 16-mil liner with an appropriate sub-liner is required.

**Closed Loop Mud Required? N Liner Required? Liner Thickness 16 Pit Underlayment Required? Y**

**Other Observations / Comments**

Floyd Bartlett  
Evaluator

8/24/2009  
Date / Time

# Application for Permit to Drill Statement of Basis

12/14/2009

**Utah Division of Oil, Gas and Mining**

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
1899	43013501060000	LOCKED	OW	S	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	Monument Butte East State J-36-8-16		<b>Unit</b>	GMBU (GRRV)	
<b>Field</b>	MONUMENT BUTTE		<b>Type of Work</b>	DRILL	
<b>Location</b>	NENE 36 8S 16E S 839 FNL 604 FEL GPS Coord (UTM) 580168E 4436780N				

## Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 350'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 36. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Surface casing should be extended to cover the base of the moderately saline ground water.

Brad Hill  
**APD Evaluator**

9/1/2009  
**Date / Time**

## Surface Statement of Basis

The proposed Monument Butte East State A-36-8-16 and the Monument Butte East State J-36-8-16 are proposed oil wells to be directionally drilled from the existing pad of the Monument Butte East State 1A-36-8-16 water flood injection well. No changes are planned to the existing pad. The reserve pit will be re-dug near the original location in the southeast side of the pad. The wells are on 20-acre spacing.

A field review of the site and the existing pad showed no concerns and should be suitable for drilling and operating the proposed additional wells.

SITLA owns both the surface and the minerals. They were invited to the pre-site visit but did not attend.

The Utah Division of Wildlife Resources was also invited and did not attend.

Floyd Bartlett  
**Onsite Evaluator**

8/24/2009  
**Date / Time**

## Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# WORKSHEET

## APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 8/17/2009

**API NO. ASSIGNED:** 43013501060000

**WELL NAME:** Monument Butte East State J-36-8-16

**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** NENE 36 080S 160E

**Permit Tech Review:** ☒

**SURFACE:** 0839 FNL 0604 FEL

**Engineering Review:** ☒

**BOTTOM:** 1317 FNL 0040 FEL

**Geology Review:** ☒

**COUNTY:** DUCHESNE

**LATITUDE:** 40.07937

**LONGITUDE:** -110.05976

**UTM SURF EASTINGS:** 580168.00

**NORTHINGS:** 4436780.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 3 - State

**LEASE NUMBER:** ML-22061

**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

**SURFACE OWNER:** 3 - State

**COALBED METHANE:** NO

### RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** STATE/FEE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** 43-7478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

**Commingleing Approved**

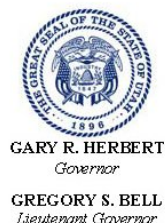
### LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** GMBU (GRRV)
- ☐ **R649-3-2. General**
- ☒ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 213-11
- Effective Date:** 11/30/2009
- Siting:** 460' fr unit boundary
- ☒ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**

- 1 - Exception Location - dmason
- 5 - Statement of Basis - bhill
- 15 - Directional - dmason
- 25 - Surface Casing - hmacdonald
- 27 - Other - bhill



# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** Monument Butte East State J-36-8-16  
**API Well Number:** 43013501060000  
**Lease Number:** ML-22061  
**Surface Owner:** STATE  
**Approval Date:** 12/14/2009

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

### Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**



For Gil Hunt  
Associate Director, Oil & Gas

<sup>Spud</sup>  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross Rig # 26

Submitted By Xabier Lasa Phone Number 435-823-6014

Well Name/Number Monument Butte East State J-36-8-16

Qtr/Qtr NE/NE Section 36 Township 8S Range 16E

Lease Serial Number ML-22061

API Number 43-013-501060000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 6-5-10 9:00

AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 6-5-10 5:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks Spud With Ross Rig #26 @ 9:00 am On 6/5/10 Run 8  
5/8" Casing @ 5:00 pm on 6/5/10.



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

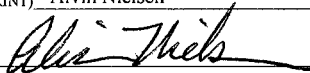
1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-22061
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER: MON BUTTE EAST J-36-8-16
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 36, T8S, R16E		9. API NUMBER: 4301350106
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 06/09/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Spud Notice
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 6/5/10 MIRU Ross Rig # 26. Spud well @ 9:00 AM. Drill 400' of 12 1/4" hole with air mist. TIH W/ 9 Jt's 8 5/8" J-55 24 # csgn. Set @ 401.25 KB On 6/7/10 cement with 180 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 4 bbls cement to pit. WOC.

NAME (PLEASE PRINT) <u>Alvin Nielsen</u>	TITLE <u>Drilling Foreman</u>
SIGNATURE <u></u>	DATE <u>06/09/2010</u>

(This space for State use only)

**RECEIVED**

**JUN 22 2010**

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

**14** CASING SET AT **10**

LAST CASING	<u>8 5/8"</u>	SET AT	<u>401.25</u>
DATUM	<u>13</u>		
DATUM TO CUT OFF CASING		<u>13</u>	
DATUM TO BRADENHEAD FLANGE			<u>13</u>
TD DRILLER	<u>400</u>	LOGGER	<u></u>
HOLE SIZE	<u>12 1/4"</u>		

OPERATOR Newfield Exploration Company  
WELL MON BUTTE EAST J-36-8-16  
FIELD/PROSPECT Monumont Butte  
CONTRACTOR & RIG # Ross Rig # 26

## LOG OF CASING STRING:

[illegible]

[illegible]

COMPANY REPRESENTATIVE Ryan Crum DATE 6/8/2010

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTAH STATE ML-22061

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

8. WELL NAME and NUMBER:  
MON BUTTE EAST J-36-8-16

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

9. API NUMBER:  
4301350106

4. LOCATION OF WELL:

FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 36, T8S, R16E

STATE: UT

**II. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  <u>07/07/2010</u>			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 07-07-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE



DATE 07/09/2010

(This space for State use only)

**RECEIVED**

**JUL 12 2010**

**DIV. OF OIL, GAS & MINING**

**Daily Activity Report**

Format For Sundry

**MON BUTTE EAST J-36-8-16****5/1/2010 To 9/30/2010****6/28/2010 Day: 1****Completion**

Rigless on 6/28/2010 - Run CBL & shoot first stage. - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6300' cement top @ surface. Perforate CP3/CP4 sds as shown in perforation report. 150 BWTR. SWIFN.

**Daily Cost: \$0****Cumulative Cost: \$9,531**

---

**6/30/2010 Day: 2****Completion**

Rigless on 6/30/2010 - Pump 20 bbl fresh water. Monitor w/ fracing stgs #1-2 on A-36-8-16. Frac stg #1. Perforate & frac stgs #2-5 - RU BJ services Frac crew. Pump 20 bbls fresh wtr into stg #1. Monitor pressure w/ moving equipment to A-36-8-16. Frac stg #1 & 2 on A-36-8-16. RU frac equipment on J-36-8-16. Frac stg #1. Perforate & frac stgs #2-5. EWTR 1971 BBLS. RU flowback equipment. Open well to pit. Flowback well for 6 hrs to recover 720 bbls. Turned to oil. SWIFN. EWTR 1251.

**Daily Cost: \$0****Cumulative Cost: \$93,304**

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**7/1/2010 Day: 3****Completion**

Rigless on 7/1/2010 - Set kill plug. MIRUSU for completion - Open well. CSG 600 psi. RIH w/ wireline. Set kill plug @ 4460. POOH w/ wireline. RD The Perforators WLT & crane.

**Daily Cost: \$0****Cumulative Cost: \$98,218**

---

**7/5/2010 Day: 4****Completion**

Nabors #809 on 7/5/2010 - MIRUSU Nabors #809. Prep & tally tbg - Open well. MIRUSU Nabors #809. ND Cameron BOP. Break out frac head. MU wellhead. NU Schaffer BOP. RU workfloor. Prep & tally tbg. SDFW

**Daily Cost: \$0****Cumulative Cost: \$139,095**

---

**7/6/2010 Day: 5****Completion**

Nabors #809 on 7/6/2010 - Pick up tbg. Drill out plugs. Clean out to PBTD - Open well. MU 4 3/4" Weatherford chomp bit, bit sub, & PSN. TIH picking up & drifting tbg. Tag kill plug @ 4462'. RU power swivel & pump lines. Drill out plug. Continue picking up tbg to tag sand @ 4648'. 22' sand. Clean out sand to next plug @ 4670'. Drill out plug. Continue picking up tbg to tag next plug @ 5369'. Drill out plug. Continue picking up tbg to tag next plug @ 5640'. Drill out plug. Continue picking up tbg to tag next plug @ 5908'. Drill out plug. Continue picking up tbg to tag sand @ 6265'. 65' sand. Clean out sand to PBTD @ 6334'. Circulate clean. LD 4 jts tbg. SDFN Lost 25 bw during clean out operations. EWTR 1276 BBLS - Open well. TBG 50 psi. CSG 400 psi. TBG flowed 25 bw & died. RU swab equipment. RIH w/ swab. Make 4 swab

runs to recover 40 bw. Well began to flow. Flow back 135 bbls oil & wtr. 60% oil cut. 200 bbls total recovered. Pump 20 bw to kill tbg. TIH w/ 4 jts tbg. Tag sand @ 6314'. 20' sand. Clean out sand to PBTD @ 6335'. Circulate well bore w/ 140 bbls 10# brine to kill. LD 5 jts tbg. TOOH w/ 197 jts 2 7/8" J-55 tbg. Get out of hole w/ tbg. LD bit & bit sub. MU btm hole assembly & TIH w/ tbg detail @ follows. 2 jts tbg, PSN, 2 jts tbg, TAC, & 193 jts tbg. Get in hole w/ tbg. RD workfloor. ND BOP. Set TAC. MU B-1 adapter flange. Land tbg on wellhead w/ 18000# tension. SDFN - Open well. MU 4 3/4" Weatherford chomp bit, bit sub, & PSN. TIH picking up & drifting tbg. Tag kill plug @ 4462'. RU power swivel & pump lines. Drill out plug. Continue picking up tbg to tag sand @ 4648'. 22' sand. Clean out sand to next plug @ 4670'. Drill out plug. Continue picking up tbg to tag next plug @ 5369'. Drill out plug. Continue picking up tbg to tag next plug @ 5640'. Drill out plug. Continue picking up tbg to tag next plug @ 5908'. Drill out plug. Continue picking up tbg to tag sand @ 6265'. 65' sand. Clean out sand to PBTD @ 6334'. Circulate clean. LD 4 jts tbg. SDFN Lost 25 bw during clean out operations. EWTR 1276 BBLS - Open well. TBG 50 psi. CSG 400 psi. TBG flowed 25 bw & died. RU swab equipment. RIH w/ swab. Make 4 swab runs to recover 40 bw. Well began to flow. Flow back 135 bbls oil & wtr. 60% oil cut. 200 bbls total recovered. Pump 20 bw to kill tbg. TIH w/ 4 jts tbg. Tag sand @ 6314'. 20' sand. Clean out sand to PBTD @ 6335'. Circulate well bore w/ 140 bbls 10# brine to kill. LD 5 jts tbg. TOOH w/ 197 jts 2 7/8" J-55 tbg. Get out of hole w/ tbg. LD bit & bit sub. MU btm hole assembly & TIH w/ tbg detail @ follows. 2 jts tbg, PSN, 2 jts tbg, TAC, & 193 jts tbg. Get in hole w/ tbg. RD workfloor. ND BOP. Set TAC. MU B-1 adapter flange. Land tbg on wellhead w/ 18000# tension. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$148,101

---

**7/7/2010 Day: 7**

**Completion**

Nabors #809 on 7/7/2010 - PU rod detail. PWOP - Open well. TBG psi. PU & prime new Central Hydraulic 2 1/2" x 1 3/4" x 21' x 24' RHAC pump. TIH picking up rod string @ follows. 4 - 1 1/2" wt bars & 239 - 7/8" guided rods (8 per). Get in hole w/ rods. Space out pump w/ 1 - 2', 4', 6', & 8' x 7/8" pony subs. MU new 1 1/2" x 30' polished rod. RU pumping unit. Fill & test tbg to 200 psi w/ 4 bw. Stroke test pump to 800 psi w/ unit. Good pump action. RDMOSU PWOP @ 6:00 PM W/ 145" SL @ 4.5 SPM FINAL REPORT! EWTR 1280 BBLS WTR **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$198,145

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**Pertinent Files: Go to File List**

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	17683	4304750969	HANCOCK 7-24-4-1	SWNE	24	4S	1W	UINTAH	6/16/2010	7/26/10
WELL 1 COMMENTS: GRRV											
A	99999	17684	4304750948	HANCOCK 10-24-4-1	NWSE	24	4S	1W	UINTAH	6/15/2010	7/26/10
GRRV											
A	99999	17685	4301350288	UTE TRIBAL 15-22-4-3	SWSE	22	4S	3W	DUCHESNE	6/8/2010	7/26/10
GRRV BHL = SWSE <b>CONFIDENTIAL</b>											
<del>B</del>	<del>99999</del>	<del>17400</del>	<del>4301351508</del>	<del>Mon. Butte STATE 14-36-8-16</del>	<del>SESW</del>	<del>36</del>	<del>8S</del>	<del>16E</del>	<del>DUCHESNE</del>	<del>6/8/2010</del>	
A	99999	17400	4301350106	MONUMENT BUTTE EAST STATE J-36-8-16	NENE	36	8S	16E	DUCHESNE	6/5/2010	7/26/10
WELL 5 COMMENTS: GRRV BHL = NENE											
A	99999	17686	4304750944	HANCOCK 1-22-4-1	NENE	22	4S	1W	UINTAH	6/5/2010	7/26/10
WELL 5 COMMENTS: GRRV											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

JUN 17 2010

DIV. OF OIL, GAS & MINING

Signature

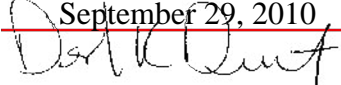
Jentri Park

Production Clerk

06/17/10

Date



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22061
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> MON BUTTE EAST J-36-8-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0839 FNL 0604 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 36 Township: 08.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013501060000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/28/2010 <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> WATER SHUTOFF <input checked="" type="checkbox"/> OTHER: <span style="border: 1px solid black; padding: 2px;">Change of Lease</span> <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input type="checkbox"/> DRILLING REPORT Report Date:		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The above mentioned directional well was drilled into an adjacent Federal Mineral Lease, therefore the BLM has requested that the Lease Number be changed to Lease UTU-74869. We would like to amend at this time the well name to be Monument Butte East J-36-8-16.		
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> <u>September 29, 2010</u> <b>By:</b> <u></u>		
<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/28/2010	



September 1, 2010

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
Monument Butte East J-36-8-16  
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R16E Section 36: NENE (ML-22061)  
839' FNL 604' FEL

Bottom Hole: T8S-R17E Section 31: SWNW (Lot 3) (UTU-74869)  
1435' FNL 102' FWL

Duchesne County, Utah

Dear Ms. Mason;

In accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of the surface hole and bottom hole locations of this directionally drilled well.

The surface and bottom hole locations are both on lands committed to the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Newfield also Certifies that all lands within 460 feet of the entire directional well bore, which crosses the lease boundary line between ML-22061 and UTU-74869, are committed to the Greater Monument Butte Unit as shown on the attached plat.

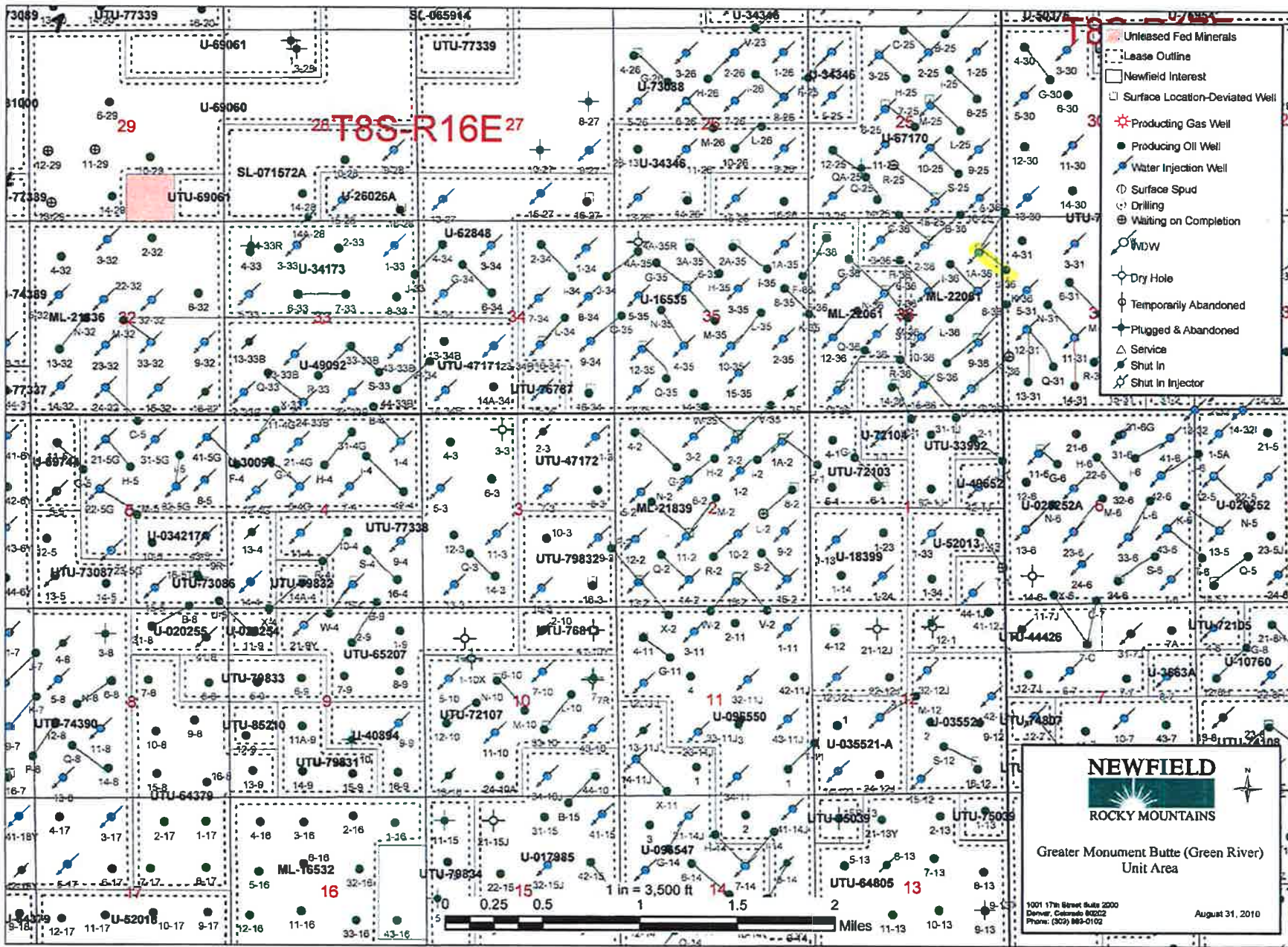
Should you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at [sgillespie@newfield.com](mailto:sgillespie@newfield.com).

Sincerely,  
Newfield Production Company

A handwritten signature in blue ink, appearing to read "SG Gillespie".

Shane Gillespie  
Land Associate

**RECEIVED** July 28, 2010



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. UTU-74869			
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____						6. If Indian, Allottee or Tribe Name			
2. Name of Operator NEWFIELD EXPLORATION COMPANY						7. Unit or CA Agreement Name and No. GMBU			
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202						3a. Phone No. (include area code) (435)646-3721		8. Lease Name and Well No. MONUMENT BUTTE EAST J-36-8-16	
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface 839' FNL & 604' FEL (NE/NE) SEC. 36, T8S, R16E (ML-22061)  At top prod. interval reported below 1246' FNL & 110' FEL (NE/NE) SEC. 36, T8S, R16E (ML-22061)  At total depth 1435' FNL & 102' FWL (SW/NW) (LOT 3) SEC. 31, T8S, R17E (UTU-74869)						9. AFI Well No. 43-013-50106			
14. Date Spudded 06/05/2010						15. Date T.D. Reached 06/13/2010		10. Field and Pool or Exploratory MONUMENT BUTTE	
16. Date Completed 07/07/2010 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.						11. Sec., T., R., M., on Block and Survey or Area SEC. 36, T8S, R16E			
18. Total Depth: MD 6391' TVD 6314'						19. Plug Back T.D.: MD 6334' TVD 6257'		12. County or Parish DUCHESNE	
20. Depth Bridge Plug Set: MD TVD						13. State UT			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND						17. Elevations (DF, RKB, RT, GL)* 5337' GL 5349' KB			
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	401'		180 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6379'		250 PRIMLITE		00'	
						400 50/50 POZ			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@ 6179'	TA @ 6081'							
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Green River			6052-6115' CP3 CP4	.36"	3	24			
B) Green River			5852-5855' CP.5	.36"	3	9			
C) Green River			5507-5590' A3 LODC	.36"	3	42			
D) Green River			5147-5310' C.B2	.36"	3	54			
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval	Amount and Type of Material								
6052-6115'	Frac w/ 25055#s 20/40 sand in 203 bbls of Lightning 17 fluid.								
5852-5855'	Frac w/ 9321#s 20/40 sand in 86 bbls of Lightning 17 fluid.								
5507-5590'	Frac w/ 35596#s 20/40 sand in 227 bbls of Lightning 17 fluid.								
5147-5310'	Frac w/ 64050#s 20/40 sand in 398 bbls of Lightning 17 fluid.								
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7-7-10	7-20-10	24	→	54	0	17			2-1/2" x 1-1/2" x 21' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3950' 4154'
				GARDEN GULCH 2 POINT 3	4276' 4559'
				X MRKR Y MRKR	4796' 4833'
				DOUGALS CREEK MRK BI CARBONATE MRK	4963' 5209'
				B LIMESTON MRK CASTLE PEAK	5337' 5829'
				BASAL CARBONATE	6254'

## 32. Additional remarks (include plugging procedure):

Stage 5: Green River Formation (GB6) 4508-4521', .36" 3/21 Frac w/ 34031#s of 20/40 sand in 232 bbls of Lightning 17 fluid

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☒ Other: Drilling Daily Activity

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Lucy Chavez-NaupotoTitle Administrative AssistantSignature Date 07/27/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

**NEWFIELD**



## **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 36 T8S, R16E  
J-36-8-16**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**01 July, 2010**

**HATHAWAY HB BURNHAM**  
**DIRECTIONAL & MWD SERVICES**



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 36 T8S, R16E  
**Well:** J-36-8-16  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well J-36-8-16  
**TVD Reference:** J-36-8-16 @ 5349.0ft (RIG 328)  
**MD Reference:** J-36-8-16 @ 5349.0ft (RIG 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	SECTION 36 T8S, R16E, SEC 26 T8S, R16E		
<b>Site Position:</b>		<b>Northing:</b>	7,202,697.00ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,045,250.00ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 5' 3.401 N
		<b>Longitude:</b>	110° 3' 10.915 W
		<b>Grid Convergence:</b>	0.93 °

<b>Well</b>	J-36-8-16, SHL LAT: 40 04 45.56, LONG: -110 03 37.83		
<b>Well Position</b>	+N/-S	0.0 ft	<b>Northing:</b> 7,200,858.23 ft
	+E/-W	0.0 ft	<b>Easting:</b> 2,043,187.46 ft
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	5,349.0 ft
		<b>Latitude:</b>	40° 4' 45.560 N
		<b>Longitude:</b>	110° 3' 37.830 W
		<b>Ground Level:</b>	5,337.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2010/06/03	11.45	65.85	52,393

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	129.35	

<b>Survey Program</b>	<b>Date</b> 2010/07/01				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
474.0	6,391.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
474.0	0.13	168.16	474.0	-0.5	0.1	0.4	0.03	0.03	0.00
505.0	0.24	169.08	505.0	-0.6	0.1	0.5	0.35	0.35	2.97
536.0	0.55	158.80	536.0	-0.8	0.2	0.7	1.02	1.00	-33.16
566.0	0.75	141.11	566.0	-1.1	0.4	1.0	0.94	0.67	-58.97
597.0	1.23	148.05	597.0	-1.6	0.7	1.5	1.59	1.55	22.39
628.0	1.41	144.45	628.0	-2.1	1.1	2.2	0.64	0.58	-11.61
658.0	1.69	139.97	658.0	-2.8	1.6	3.0	1.02	0.93	-14.93
689.0	1.93	137.02	689.0	-3.5	2.2	3.9	0.83	0.77	-9.52
720.0	2.40	131.07	719.9	-4.3	3.1	5.1	1.68	1.52	-19.19
750.0	2.88	129.14	749.9	-5.2	4.1	6.5	1.63	1.60	-6.43
781.0	3.52	130.30	780.9	-6.3	5.5	8.2	2.07	2.06	3.74
812.0	3.85	127.62	811.8	-7.6	7.0	10.2	1.20	1.06	-8.65





**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
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**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

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**MD Reference:** J-36-8-16 @ 5349.0ft (RIG 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
857.0	4.00	132.72	856.7	-9.6	9.4	13.3	0.84	0.33	11.33
902.0	4.44	133.22	901.6	-11.8	11.8	16.6	0.98	0.98	1.11
948.0	5.07	136.69	947.4	-14.5	14.5	20.4	1.50	1.37	7.54
993.0	5.73	137.11	992.2	-17.6	17.4	24.6	1.47	1.47	0.93
1,038.0	6.42	137.19	1,037.0	-21.1	20.6	29.3	1.53	1.53	0.18
1,084.0	7.27	134.99	1,082.6	-25.0	24.4	34.8	1.93	1.85	-4.78
1,129.0	8.15	136.17	1,127.2	-29.4	28.6	40.8	1.99	1.96	2.62
1,174.0	9.23	135.79	1,171.7	-34.2	33.4	47.5	2.40	2.40	-0.84
1,219.0	9.95	134.87	1,216.1	-39.6	38.6	55.0	1.64	1.60	-2.04
1,265.0	10.52	131.26	1,261.3	-45.1	44.6	63.1	1.86	1.24	-7.85
1,355.0	11.01	128.23	1,349.8	-55.9	57.5	79.9	0.83	0.54	-3.37
1,446.0	11.47	127.07	1,439.0	-66.7	71.6	97.6	0.56	0.51	-1.27
1,536.0	11.65	126.85	1,527.2	-77.6	86.0	115.7	0.21	0.20	-0.24
1,627.0	11.60	126.92	1,616.3	-88.6	100.7	134.0	0.06	-0.05	0.08
1,718.0	11.43	126.50	1,705.5	-99.4	115.2	152.1	0.21	-0.19	-0.46
1,808.0	10.70	125.27	1,793.8	-109.6	129.2	169.4	0.85	-0.81	-1.37
1,899.0	10.42	125.44	1,883.3	-119.2	142.8	186.0	0.31	-0.31	0.19
1,989.0	9.49	129.20	1,971.9	-128.6	155.2	201.6	1.26	-1.03	4.18
2,080.0	9.69	129.42	2,061.6	-138.2	166.9	216.7	0.22	0.22	0.24
2,170.0	10.52	132.39	2,150.2	-148.6	178.8	232.5	1.09	0.92	3.30
2,261.0	10.46	132.41	2,239.7	-159.7	191.1	249.0	0.07	-0.07	0.02
2,352.0	9.80	132.74	2,329.3	-170.6	202.9	265.0	0.73	-0.73	0.36
2,442.0	10.24	126.85	2,417.9	-180.6	214.9	280.7	1.24	0.49	-6.54
2,533.0	10.00	125.42	2,507.5	-190.0	227.8	296.6	0.38	-0.26	-1.57
2,623.0	9.71	127.18	2,596.2	-199.1	240.2	312.0	0.46	-0.32	1.96
2,714.0	9.73	129.18	2,685.9	-208.6	252.3	327.4	0.37	0.02	2.20
2,805.0	9.47	124.76	2,775.6	-217.7	264.4	342.5	0.86	-0.29	-4.86
2,895.0	8.92	118.13	2,864.5	-225.2	276.6	356.7	1.33	-0.61	-7.37
2,986.0	11.60	126.50	2,954.0	-234.0	290.2	372.8	3.36	2.95	9.20
3,076.0	11.27	129.68	3,042.2	-245.0	304.3	390.6	0.79	-0.37	3.53
3,167.0	10.10	130.45	3,131.6	-255.9	317.2	407.5	1.30	-1.29	0.85
3,257.0	10.54	134.34	3,220.2	-266.7	329.1	423.6	0.92	0.49	4.32
3,348.0	9.84	130.30	3,309.7	-277.6	340.9	439.7	1.10	-0.77	-4.44
3,439.0	10.66	127.77	3,399.3	-287.8	353.5	455.8	1.03	0.90	-2.78
3,529.0	11.23	127.14	3,487.7	-298.2	367.1	472.9	0.65	0.63	-0.70
3,620.0	10.03	125.72	3,577.1	-308.1	380.6	489.7	1.35	-1.32	-1.56
3,710.0	9.36	127.20	3,665.8	-317.1	392.8	504.8	0.79	-0.74	1.64
3,801.0	9.56	128.52	3,755.6	-326.3	404.6	519.8	0.32	0.22	1.45
3,892.0	8.94	129.64	3,845.4	-335.5	416.0	534.4	0.71	-0.68	1.23
3,982.0	8.79	130.26	3,934.3	-344.4	426.6	548.3	0.20	-0.17	0.69
4,073.0	9.14	131.00	4,024.2	-353.7	437.3	562.4	0.40	0.38	0.81
4,163.0	9.29	130.67	4,113.0	-363.1	448.3	576.9	0.18	0.17	-0.37
4,254.0	10.52	134.74	4,202.7	-373.7	459.7	592.5	1.55	1.35	4.47
4,345.0	10.44	133.13	4,292.2	-385.2	471.6	609.0	0.33	-0.09	-1.77
4,435.0	9.95	134.39	4,380.7	-396.2	483.1	624.8	0.60	-0.54	1.40
4,526.0	9.49	133.53	4,470.4	-406.9	494.2	640.2	0.53	-0.51	-0.95
4,616.0	9.27	130.34	4,559.2	-416.7	505.1	654.8	0.63	-0.24	-3.54
4,707.0	9.18	129.20	4,649.1	-426.0	516.3	669.4	0.22	-0.10	-1.25
4,797.0	8.57	133.90	4,738.0	-435.2	526.7	683.3	1.05	-0.68	5.22
4,888.0	9.45	132.74	4,827.9	-445.0	537.1	697.5	0.99	0.97	-1.27
4,978.0	9.16	135.22	4,916.7	-455.1	547.6	712.0	0.55	-0.32	2.76
5,069.0	9.25	132.39	5,006.5	-465.2	558.1	726.5	0.51	0.10	-3.11
5,159.0	9.89	132.67	5,095.2	-475.3	569.1	741.4	0.71	0.71	0.31
5,250.0	9.47	130.54	5,185.0	-485.4	580.5	756.7	0.61	-0.46	-2.34



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**MD Reference:** J-36-8-16 @ 5349.0ft (RIG 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,262.3	9.24	130.37	5,197.1	-486.7	582.1	758.7	1.89	-1.88	-1.34
<b>J-36-8-16 TGT</b>									
5,341.0	7.76	129.09	5,274.9	-494.2	591.0	770.3	1.89	-1.88	-1.63
5,431.0	7.82	130.61	5,364.1	-502.0	600.3	782.5	0.24	0.07	1.69
5,522.0	8.85	132.50	5,454.1	-510.8	610.2	795.7	1.17	1.13	2.08
5,612.0	9.38	130.83	5,543.0	-520.2	620.9	810.0	0.66	0.59	-1.86
5,703.0	7.71	131.57	5,633.0	-529.1	631.0	823.5	1.84	-1.84	0.81
5,794.0	8.20	131.57	5,723.1	-537.5	640.5	836.1	0.54	0.54	0.00
5,884.0	7.69	131.00	5,812.2	-545.7	649.8	848.5	0.57	-0.57	-0.63
5,975.0	9.27	130.59	5,902.2	-554.5	660.0	861.9	1.74	1.74	-0.45
6,065.0	9.10	131.51	5,991.1	-563.9	670.8	876.3	0.25	-0.19	1.02
6,156.0	8.59	131.71	6,081.0	-573.2	681.3	890.2	0.56	-0.56	0.22
6,247.0	8.83	129.95	6,171.0	-582.2	691.7	904.0	0.39	0.26	-1.93
6,337.0	7.58	134.96	6,260.0	-590.8	701.2	916.8	1.60	-1.39	5.57
6,391.0	7.58	134.96	6,313.6	-595.9	706.2	923.9	0.00	0.00	0.00

## Wellbore Targets

## Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
J-36-8-16 TGT	0.00	0.00	5,200.0	-469.0	572.0	7,200,398.47	2,043,766.95	40° 4' 40.924 N	110° 3' 30.471 W
- actual wellpath misses by 20.6ft at 5262.1ft MD (5196.9 TVD, -486.7 N, 582.0 E)									
- Circle (radius 75.0)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





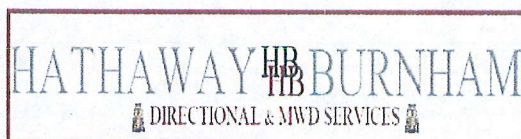
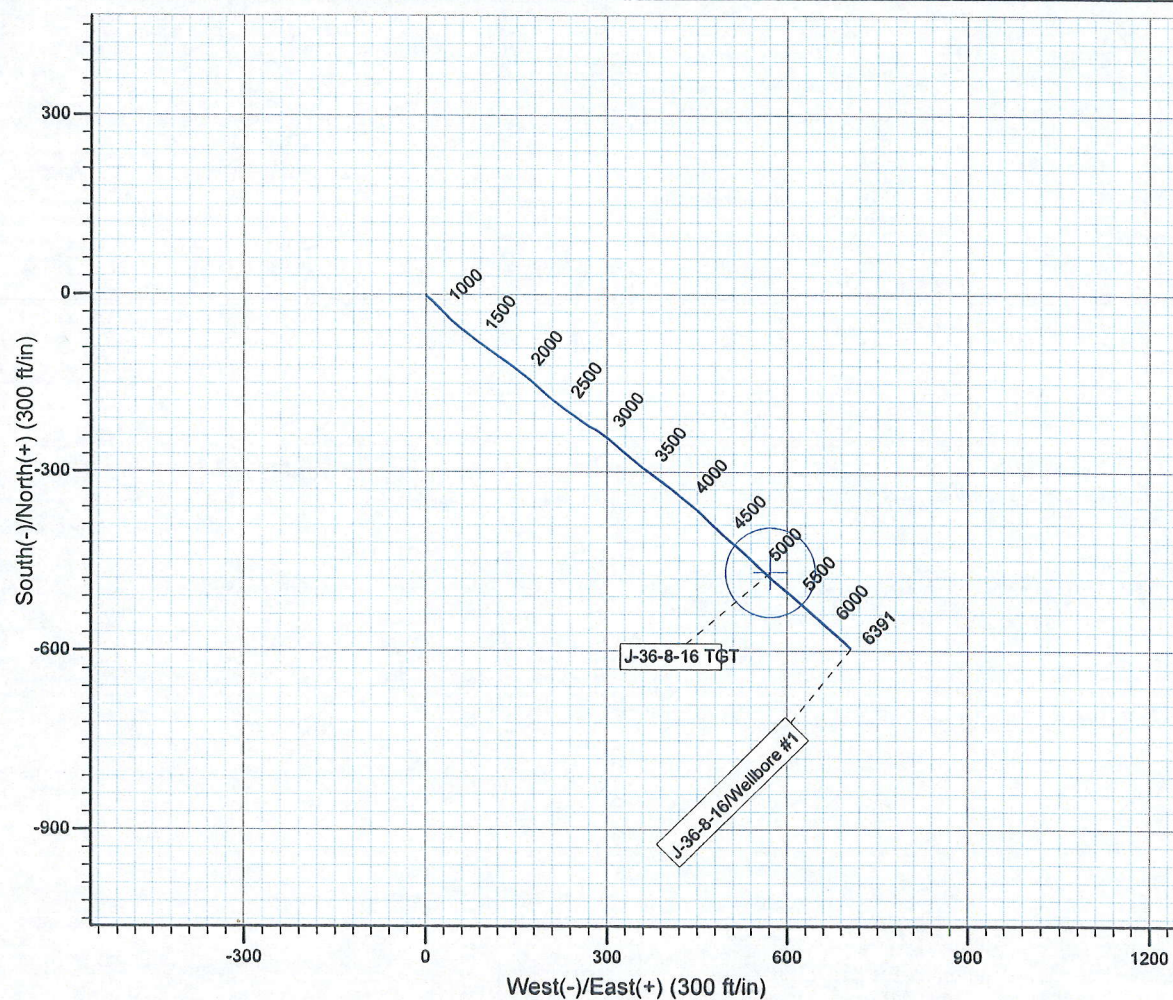
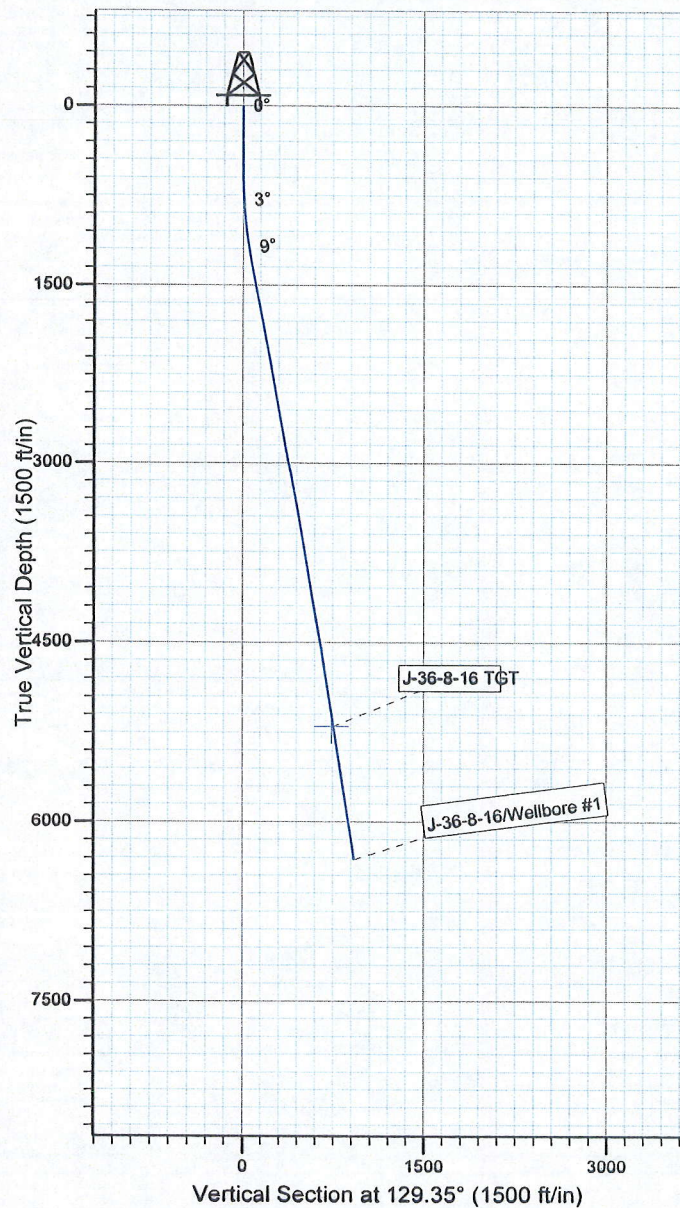
Project: USGS Myton SW (UT)  
Site: SECTION 36 T8S, R16E  
Well: J-36-8-16  
Wellbore: Wellbore #1  
SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
Magnetic North: 11.45°

Magnetic Field  
Strength: 52392.9snT  
Dip Angle: 65.85°  
Date: 2010/06/03  
Model: IGRF2010



Design: Wellbore #1 (J-36-8-16/Wellbore #1)

Created By: *Jim Hudson* Date: 19:24, July 01 2010  
THIS SURVEY IS CORRECT TO THE BEST OF MY  
KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.



## Daily Activity Report

Format For Sundry

### MON BUTTE EAST J-36-8-16

4/1/2010 To 8/30/2010

**MON BUTTE EAST J-36-8-16****Waiting on Cement****Date:** 6/8/2010

Ross #26 at 400. Days Since Spud - On 6/7/10 Cemented 85/8" surface casing w/180 sks mixed @ 15.8 ppg 1.17 yeild G+2%CaCl - Ross rig # 26 spud Monumont Butte East State J-36-8-16 @ 9:00 AM on 6/5/10 TD 400' - 4 bbls cement returned to pit - BLM & State was notified - On 6/5/10 ran 85/8" surface casing ( Guide shoe shoe jt, baffle plate 8 jts Set @ 401.25'

**Daily Cost:** \$0**Cumulative Cost:** \$47,046

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**MON BUTTE EAST J-36-8-16****Waiting on Cement****Date:** 6/9/2010

Ross #26 at 400. 0 Days Since Spud - Rig down & get ready to move to the Monumont Butte East State J-36-8-16 on 6/9/10

**Daily Cost:** \$0**Cumulative Cost:** \$47,396

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**MON BUTTE EAST J-36-8-16****Drill 7 7/8" hole with fresh water****Date:** 6/10/2010

Capstar #328 at 1995. 1 Days Since Spud - WDP - TIH & Tag cmt @ 340' - Cut drlg line - Drill 77/8" hole f/ 340' to 1995' WOB= 15/18 RPMS= 184 GPM= 409 ROP= 174' pr hr - PU Smith PDC bit & Dog sub & Hunting 4.8 stg, 7/8 mil .33 MM, NMDC, Gap sub, Ant sub, NMDC, & 4.5" H - 0 #s for 10 min & casing to 1500#s for 30 min, We had to work on test truck for about 30 min - Floor valve, pipe rams, Inside out side choke valves Blind rams to 2000#s for 10 min & Hydril to 150 - Accept rig @ 13:00 PM on 6/9/10 & Held saftey mtg & RU B&C Quick test & Tested Upper kelly valve, - Nipple up bops - Move rig & RU w/ Howcroft Trucking 3 miles to the Monumont Butte East State J-36-8-16 on 6/9/10 - Hook up flair lines

**Daily Cost:** \$0**Cumulative Cost:** \$109,801

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**MON BUTTE EAST J-36-8-16****Drill 7 7/8" hole with fresh water****Date:** 6/11/2010

Capstar #328 at 4848. 2 Days Since Spud - Newfield saftey stand down - Rig serv - Drill 77/8" hole f/ 2889' to 4848' WOB= 18/20 RPMS= 184 GPM= 409 ROP= 111' pr hr - Drill 77/8" hole f/ 1995' to 2889' WOB= 18/20 RPMS= 184 GPM= 409 ROP= 178' pr hr

**Daily Cost:** \$0**Cumulative Cost:** \$136,562

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**MON BUTTE EAST J-36-8-16****Lay Down Drill Pipe/BHA****Date:** 6/12/2010

Capstar #328 at 6391. 3 Days Since Spud - Drill 77/8" hole f/ 4848' to 5346' WOB= 18/20 RPMS= 184 GPM= 409 ROP= 76' pr hr - Rig serv - Circ f/ LD - Pump pill & LDDP - Drill 77/8" hole f/ 5346' to 6391' WOB= 18/20 RPMS= 184 GPM= 409 ROP= 77' pr hr

**Daily Cost:** \$0**Cumulative Cost:** \$174,692

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**MON BUTTE EAST J-36-8-16****Cleaning mud pits****Date:** 6/13/2010

Capstar #328 at 6391. 4 Days Since Spud - Load pipe racks & TIH to 3000' - TOOH check flow @ WT pipe well is flowing 5 gpm - Pump 260 bbls of brine wtr WT 10# - LDDP & BHA - Held saftey mtg & RU Phoenix Survey Inc & Log w/ Duel Guard Gamma ray, Compensated Density Compensat - ed Neutron Gamma Ray loggers TD 6386' - RU to run 5.5 casing - Run 146 jts 5.5 J55 15.5# LTC Shoe 6379.43' Float collar @ 6332.63' 4jts trans to the MBES A-36-8-16 - Shut down & cut bad spot out of drlg line 250' - Run casing - Circ f/ cmt job - Held saftey mtg & RU BJ & Cmt 250 sks of lead cmt mixed @ 11 ppg 3.53 yeild PLII+3%KCL+5#CSE+0.5#CF - +2#KOL+.5SMS+FP+SF & 400 sks of tail cmt mixed 14.4 ppg 1.24 yeild 50:50:2+3% KCL+0.5%EC-1 - +.25#CF+.05#SF+.3SMS+FP-6L 150 bbls disp bumped plug to 2477# 13 bbls cmt to pit - Nipple down & set 5.5 casing slips w/ 95,000#s - Clean mud pits - Wait on brine trucks

**Daily Cost:** \$0**Cumulative Cost:** \$285,918

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**MON BUTTE EAST J-36-8-16****Rigging down****Date:** 6/14/2010

Capstar #328 at 6391. 5 Days Since Spud - Release rig @ 7:30 AM on 6/13/10 - BLM & State was notif - Clean mud pits **Finalized**

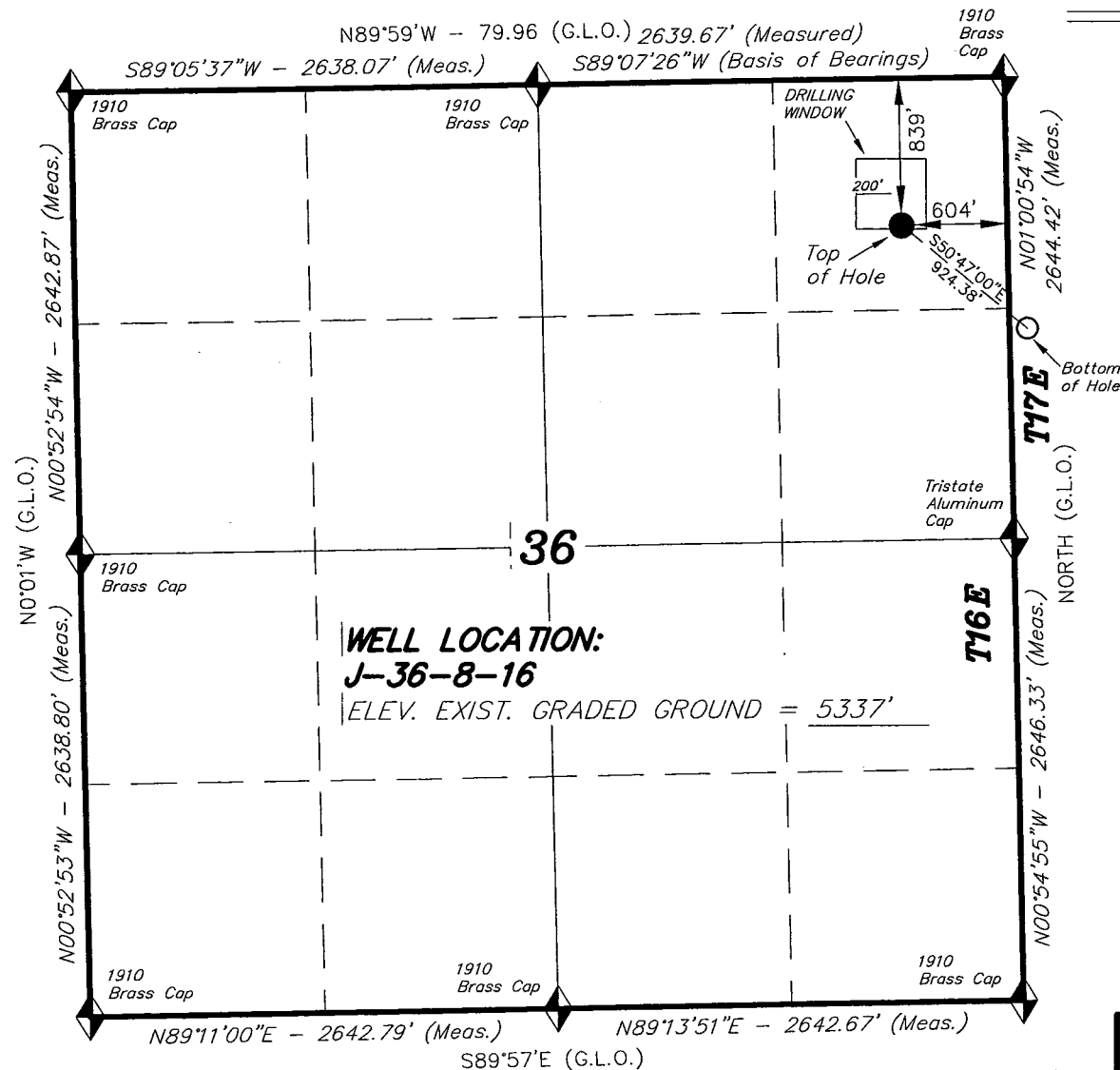
**Daily Cost:** \$0**Cumulative Cost:** \$287,078

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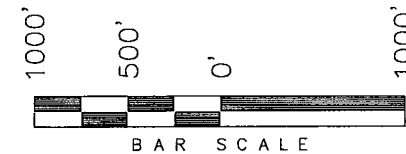
**Pertinent Files: Go to File List**

*T8S, R16E, S.L.B.&M.*

*NEWFIELD EXPLORATION COMPANY*



WELL LOCATION, J-36-8-16, LOCATED AS  
SHOWN IN THE NE 1/4 NE 1/4 OF  
SECTION 36, T8S, R16E, S.L.B.&M.  
DUCESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE AND BELIEF. 189377

STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 109377  
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED:  
06-16-09


SURVEYED BY: T.H.

DATE DRAWN:  
06-29-09

DRAWN BY: F.T.M.

REVISED:  
07-20-10 - M.W.

SCALE: 1" = 1000'

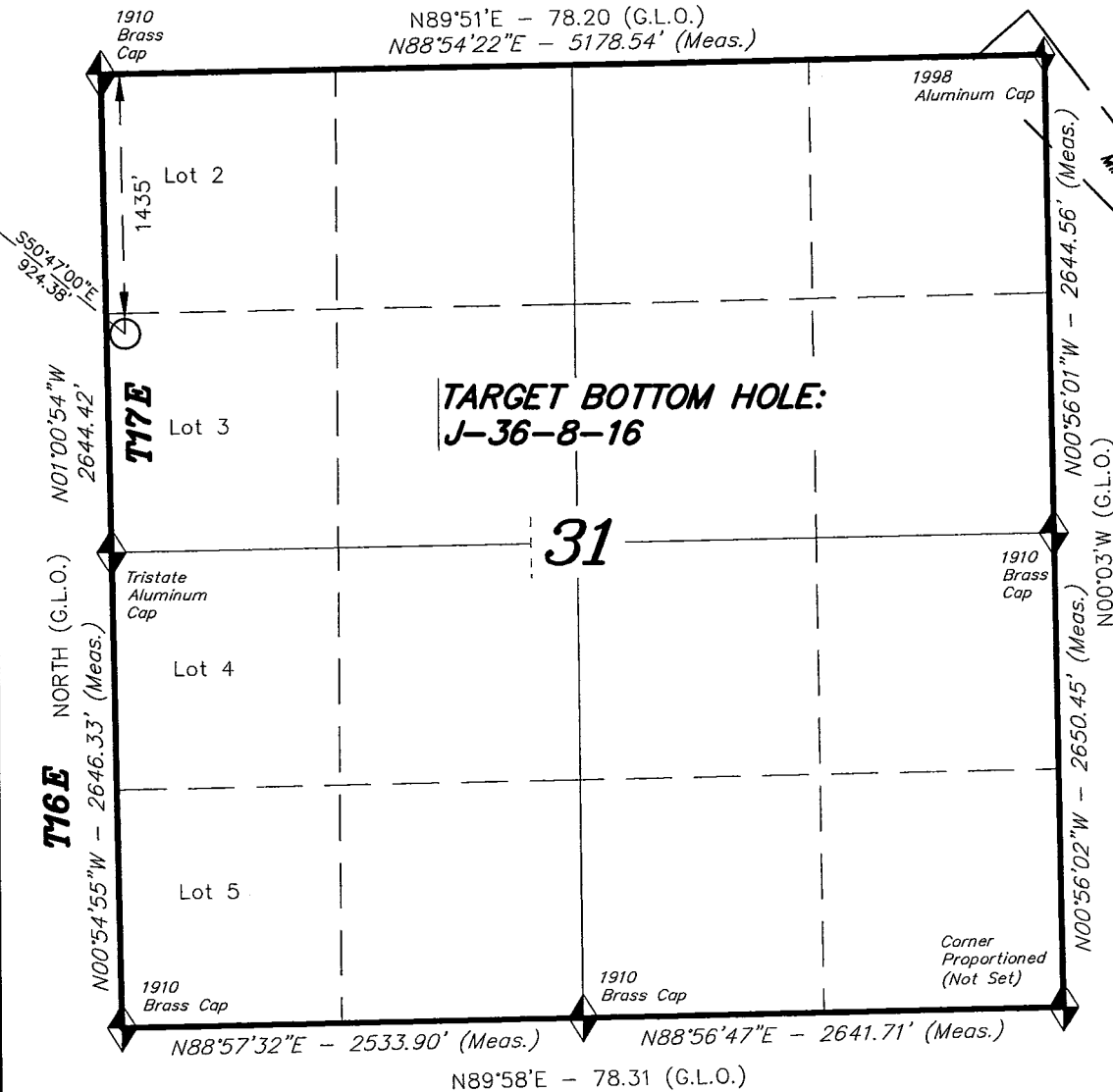
 = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on  
LOCATION: an N.G.S. OPUS Correction.  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

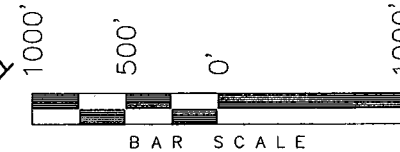
J-36-8-16  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 45.56"  
LONGITUDE = 110° 03' 37.83"

**T8S, S.L.B.&M.**

**NEWFIELD EXPLORATION COMPANY**



TARGET BOTTOM HOLE, J-36-8-16,  
LOCATED AS SHOWN IN THE SW 1/4  
NW 1/4 OF SECTION 31, T8S, R17E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.

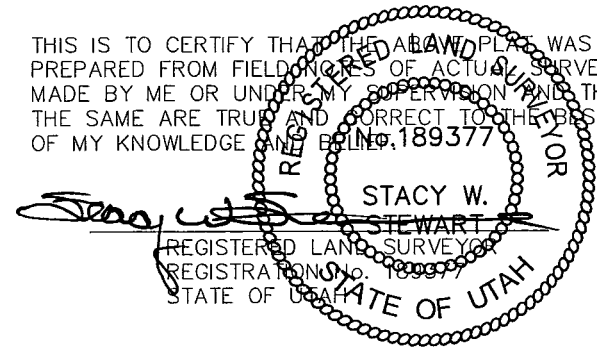


**Note:**

1. The bottom of hole footages are 1435' FNL & 102' FWL.

BASIS OF ELEV; Elevations are base on  
LOCATION: an N.G.S. OPUS Correction.  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE AND BELIEF.



**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 06-25-10	SURVEYED BY: T.H.
DATE DRAWN: 06-26-09	DRAWN BY: M.W.
REVISED: 07-20-10 - M.W.	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

5. Lease Serial No.  
UTU-74869

6. If Indian, Allottee or Tribe Name  
NA

1a. Type of work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator Newfield Production Company

7. If Unit or CA Agreement, Name and No.  
Greater Monument Butte

8. Lease Name and Well No.  
Monument Butte East J-36-8-16

9. API Well No.  
43-013-50106

3a. Address Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)  
(435) 646-3721

10. Field and Pool, or Exploratory  
Monument Butte

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface NE/NE 839' FNL 604' FEL Sec. 36, T8S R16E (ML-22061)

At proposed prod. zone SW/NW (LOT 3) 1435' FNL 102' FWL Sec. 31, T8S R17E (UTU-74869)

11. Sec., T. R. M. or Blk. and Survey or Area  
Sec. 36, T8S R16E

14. Distance in miles and direction from nearest town or post office\*  
Approximately 14.7 miles south of Myton, UT

12. County or Parish  
Duchesne

13. State  
UT

15. Distance from proposed\*  
location to nearest  
property or lease line, ft. Approx. 102' f/lse, NA' f/unit  
(Also to nearest drig. unit line, if any)

16. No. of acres in lease  
1,177.07

17. Spacing Unit dedicated to this well  
20 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. Approx. 1103'

19. Proposed Depth  
6,391'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5337' GL

22. Approximate date work will start\*  
NA

23. Estimated duration  
(7) days from SPUD to rig release

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature

*Mandie Crozier*

Name (Printed/Typed)  
Mandie Crozier

Date

7/23/10

Title

Regulatory Specialist

Approved by (Signature)

*James H. Sparger*

Name (Printed/Typed)

James H. Sparger

Date

JAN 18 2011

Title

Acting Assistant Field Manager  
Lands & Mineral Resources

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

\*(Instructions on page 2)

NOS <sup>APD</sup> posted 7/28/2010

AFMSS# 8/27/2010

RECEIVED

JUL 26 2010

NOTICE OF APPROVAL

RECEIVED

JAN 26 2011

BLM VERNAL, UTAH

UDOGM

DIV. OF OIL, GAS & MINING

No NOS

10CX50041A



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company  
Well No: Monument Butte East J-36-8-16  
API No: 43-013-50106

Location: NENE, Sec. 36, T8S, R16E  
Lease No: UTU-74869  
Agreement: Greater Monument Butte (GR)

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- A double synthetic liner with a minimum thickness of 16 mils and an appropriate thickness of felt sub-liner to cushion the liners shall be properly installed and maintained in the reserve pit.
- The well site shall be bermed to prevent fluids from leaving the pad.
- The reserve pit shall be fenced upon completion of drilling operations.
- Any deviation from submitted APD's and ROW applications the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- None.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.